RADIOTONE®

Service Manual

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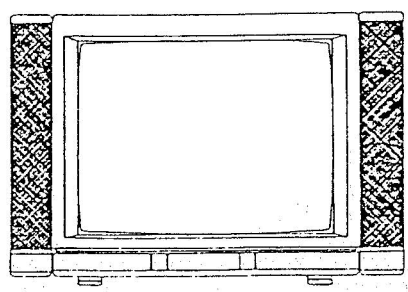

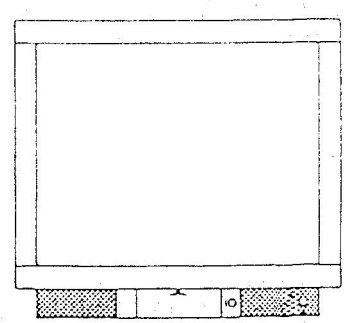

Ersatzteil-Distributor · Reparaturcenter

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SPECIFICATIONS

Power supply..... (180-250)V , 50Hz
Power consuption..... 65W (Cenelec HD406)
Receiving standard..... CCIR standard
Receiving channels
VHF..... C1-C4,C5-C12,S1-S20
UHF..... C21-C69
Tuning.....Voltage synthesis
Audio output..... 3W (2x3W)
Antenna input impedance.....75ohm IEC type

SAFETY PRECUATINS

WARNING:
Before servicing this chassis please read the safety instructions.

SAFETY IN STRUCTIONS

1.
The working high voltage of this TV set is 24 kV. When the rear of the TV set is open, a special precaution is necessary.

Do not touch the TV set if you are not familiar with safety measurements and actions or when you do not know how to work with the equipment for high voltage. If you handle or work with a picture tube, the anode has to be securely discharged against the chassis. Only then you can disassemble the anode cap from the picture tube.

In case the picture tube will break in pieces, the glass pieces can dangerously damage the person handling with it. Therefore it is necessary to wear protecting glasses; and, first of all, the replacement of the picture tube requires a highly attentive handling.

2.
When replacing the cable sets it is important to build them in the same way as on the original TV set in order to assure the safety of a TV set user.

3.
When servicing the test equipment or connecting it to the TV set it is necessary to connect it to the network through SMT transformer in order to assure the safety of a TV set user.

4.
The fuse can be replaced only by an original one or the one from the spare parts list.

5.
When replacing the cables and isolating conductors it is necessary to protect mechanically their contacts with other component parts, as it is carried out on the original product.

The component parts from the scheme or spare parts list which are marked by an international security symbol (!), can be replaced only by the same or confirmed ones.

6.
The cables and isolated conductors have to be draw away from the component parts which are becoming warm.

SAFETY PRECAUTIONS FOR SINGLE COMPONENT PARTS

Some electric and mechanical parts of this chassis have the characteristics, which comply with safety requirements. These charateristics affect also X-rays radiation.

When replacing any of these component parts you have to read spare parts list carefully, where they are marked by the safety symbol. In case you do not use the original component parts from the above mentioned spare parts list, the safety of a TV set can decrease and the X-rays radiation can increase. In this case the producer does not take the responsibility for it.

SERVICE ADJUSTMENTS OF A CTV SET WITH G-4 CHASSIS

All the necessary adjustments of CTV set are correctly carried out during its production. Therewith a correct operation of a TV set when connected to the network voltage (180-260V) and a suitable antenna signal is assured.

In case a sevice or a reparation of a TV set is needed all the adjustments are to be checked and corrected if necessary. After the service action is finished a defect of picture geometry or regularity of colour reproduction appeares as a rule. To ensure the possibilities of correct adjustments it is necessary to use a suitable video signal generator as well as proper instruments.

After the connection of a TV set to the network voltage and to the antenna signal the adjustments are to be carried out according to the following order.

DEMAGNETIZING OF PICTURE TUBE

In case that the distortion of colour reproduction, visible as a colour "cloud" at the reproduction af a white field, emerges in spite of a correct adjustment, it is necessary to demagnetize the picture tube. Each time when the TV set is switched to the netwoek demagnetizing has to be carried out by the demagnetizing coil which is at the picture tube rear. Before you turn on the TV set it has to be turned off for 10 minutes at least. This way the cooling of demagnetizing PTC resistor is assured.

When the demagnetizing is not carried out in spite of the above mentioned, a special degausing coil has to be used. It has to be connected to 220V network voltage and brought closer to the picture tube. After that it is necessary to remove the coil slowly away from the picture tube to the distance of approximately 2m. Herewith the picture tube is exposed to the effect of decreasing alternating magnetix filed, which enables magnetizing.

ELECTRICAL ADJUSTMENT PROCEDURE

POWER SUPPLY

AC 180-250V , 50/60Hz

1. ADJUSTMENT OF HORIZONTAL SUPPLY VOLTAGE

Equipment : DC Voltmeter (Z in 40kOhm/V)
Test point: G-4 chassis
Adjust: P-651 (118V) G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and color to minimum.
3. Connect voltmeter to the test point .
4. Adjust P-651 so that the voltage is 118V.

2. ADJUSTMENT G-2 VOLTAGE

Equipment: Oscilloscope (DC; 10:1; 5 V/div)
Test point: 1, 2, 3 VK module
Adjust: G-2 potentiometer on diode split transformer

1. Apply COLOR BAR test signal.
2. Adjust contrast, brightness and colour saturation to average values or blank the last bar on the grey scale and set coulor to minimum.
3. Connect the probe of the oscilloscope to the test pin which shows the highest DC black level.
4. Adjust with G-2 potentiometer for 150V DC black level.

3. FOCUS ADJUSTMENT

Adjust: Focus potentiometer on diode split transformer

1. Apply PHILIPS test signal.
3. Adjustfocus potentiometer to obtain the best focusinthe centre of picture.

4. SINHRONIZATION ADJUSTMENT

Adjust: Potentiometer P-102

1. Apply PHILIPS test signal.
2. Conect points (apply 12V on the pin 28 of IC 101).
3. Adjust potentiometer P-102 to get the best picture sinhronization.

5. HORIZONTAL WIDTH ADJUSTMENT

Adjust: L-1002 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour saturation to average values.
3. Adjust L1002 until the white squares on the left and right side of the picture are not seen.

6. HORIZONTAL CENTER ADJUSTMENT

Adjust: P-103 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour to average values.
3. Adjust potentiometer P-103 to centre the picture horizontally (test pattern circle coincides with the picture tube centre).

7. VERTICAL AMPLITUDE ADJUSTMENT

Adjust: P-302 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour to average values.
3. Adjust potentiometer P-302 unless the white squares on the left and right side of the picture are not seen.

8. VERTICAL LINEARITY ADJUSTMENT

Adjust: P-301 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour on average values.
3. Adjust potentiometer P-301 so that the circle in the test pattern is symmetrical.

9. WHITE BALANCE ADJUSTMENT

Equipment: Oscilloscope (10:1; 2 V/div; 20 us/div)
Test point: 1, 2, 3 VK module
Adjust: P-23, P-07 VK module

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour on average values.
3. Connect oscilloscope probe to the test point 1.
4. With control unit adjust signal to 60V.
5. Connect oscilloscope probe to the test point 2.
6. With potentiometer P-23 adjust signal level 60V.
7. Connect oscilloscope probe to the test point 2.
8. With potentiometer P-07 adjust signal level to 60V.

10. CROMINANCE BAND-PASS FILTER ADJUSTMENT

Equipment: Oscilloscope (10:1; 5 mV/div; 10 us/div)
Test point: (pin 4 of IC 801) G-4 chassis
Adjust: L-801 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour to average values.
3. Connect oscilloscope probe to the test point (pin 4 on IC 801).
4. Adjust with the coil L-801 the maximal amplitude of the colour signal.

11. DELAY LINE AMPLITUDE ADJUSTMENT

Equipment: Oscilloscope (10:1; 0.1 V/div; 10 us/div)
Test point: (pin 17 of IC 108) G-4 chassis
Adjust: P-801 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour average values.
3. Connect oscilloscope probe to the test point .
4. With potentiometer P-801 adjust +V and +-U field to minimum.

12. DELAY TIME PHASE ADJUSTMENT

Equipment: Oscilloscope (10:1; 0.1 V/div; 10 us/div)
Test point: (pin 17 of IC 801) G-4 chassis
Adjust: L-803 G-4 chassis

1. Apply PHILIPS test signal.
2. Adjust contrast, brightness and colour to average values.
3. Connect oscilloscope probe to the test point .
4. Adjust with L-803 that PAL lines dissapear.

13. TUNER AGC ADJUSTMENT

Equipment: DC voltmeter (Zin 40 kOhm/V)
Test point: (pin 5 of tuner) G-4 chassis
Adjust: P-101 G-4 chassis

1. Apply PHILIPS test signal - 1mV on antenna input.
2. Adjustcontrast,brightness andcolourtoaverage values.
3. Connect voltmeter probe to the test point .
4. Adjust with potenticmeter P-101 to 7,5V.

14. VIDEO DEMODULATION 38.9MHZ ADJUSTMENT

Equipment: Oscilloscope (10:1; 0.5 V/div; 1 us/div)
Test point: or pin 20 of IC 101 G-4 chassis
Adjust: L-103 G-4 chassis

1.ApplyTV test signal with 250KHz square wave modulationon antena input.
2. Conect oscilloscope probe to the test point .
3. Adjust coil L-103 to get optimal square wave video signal.

15. SECAM DECODER MODULE ; SECAM-G4

15.1. COLOUR DEMODULATION ADJUSTMENT

Equipment:	Oscilloscope (10:1; 5 mV/div; 20 us/div)	
Test point:	3 (pin 9 of IC 701)	SECAM module
Adjust:	L-705, P-702	SECAM module

1. Apply SECAM signal without video information.
2. Connect oscilloscope probe to the test point 3.
3. With coil L-705 adjust minimum colour modulation.
4. With potentiometer P-702 balance two neighbour lines to minimum.
5. If necessary correct with L-705.

15.2. BELL FILTER ADJUSTMENT

Equipment:	Oscilloscope (10:1; 0.1 V/div; 10 us/div)	
Test point:	(pin 17 of IC 801)	G-4 chassis
Adjust:	L-701	SECAM module

1. Apply SECAM COLOUR BAR test signal.
2. Connect oscilloscope probe to the test point .
3. Adjust with coil L-701 the best transient between colour bars (minimum overshoot and undershoot).

15.3. DELAY LINE AMPLITUDE ADJUSTMENT

Equipment:	Oscilloscope (10:1; 5 mV/div; 20 us/div)	
Test point:	4 (pin 14 of IC 701)	SECAM module
Adjust:	P-701	SECAM module

1. Apply RED test signal.
2. Adjust contrast, brightness and colour to average values.
3. Connect oscilloscope probe to the test point 4.
4. With potentiometer P-701 adjust equal signal in twosuccesive lines.

15.4. DELAY TIME PHASE ADJUSTMENT

Equipment:	Oscilloscope (10:1; 0.1 V/div; 10 us/div)	
Test point:	(pin 17 of IC 801)	G-4 chassis
Adjust:	L-703	SECAM module

1. Apply SECAM COLOUR BAR test signal.
2. Adjust contrast, brightness and colour to average values.
3. Connect oscilloscope probe to the test point .
4. Adjust with L-703 that get equal signal for PAL and SECAM test signal.

16. STEREO DECODER MODULE ; ST-G4

16.1. REFERENT COIL ADJUSTMENT 38,9MHZ

Equipment:	Tracking Scope	
Test point:	pin 15 of IC 501 (TDA 3857)	ST-G4 module
Adjust:	L-504	ST-G4 module

1. Apply sweep generator signal f=30MHz to 40MMHz to the pin 1 and pin 20 of IC 501.
2. Connect Tracking Scope probe to the pin 15 of IC 501.
3. Adjust with L-504 S-curve to 38,9MHz.

16.2. S CURVE 5,5MHZ ADJUSTMENT

Equipment: Tracking Scope
Test point: pin 7 of IC 501 (TDA 3857) ST-G4 module
Adjust: L-502 ST-G4 module

1. Apply sweep generator signal f=30MHz to 40MMHz to the pin 1 and pin 20 of IC 501.
2. Connect Tracking Scope probe to the pin 7 of IC 501.
3. Adjust with L-502 S-curve to 5,5MHz marker.

16.3. S CURVE 5.74MHZ ADJUSTMENT

Equipment: Tracking Scope
Test point: pin 6 of IC 501 (TDA 3857) ST-G4 module
Adjust: L-501 ST-G4 module

1. Apply sweep generator signal f=30MHz to 40MHz to the pin 1 and pin 20 of IC 501.
2. Connect Tracking Scope probe to the pin 6 of IC-501.
3. Adjust with L-501 S-curve to 5,74MHz marker.

16.4. STEREO SEPARATION ADJUSTMENT

Equipment: Oscilloscope , PHILIPS test generator with STEREO ton
Test point: pin 14 of IC 502 ST-G4 module
Adjust: P-501 ST-G4 module

1. Connect PHILIPS test generator to antenna input.
   On test generator switch STEREO ,sound L=3kHz,R=1kHz.
2. Connect oscilloscope probe to the pin 14 of IC 502.
3. With potentiometer P-501 adjust minimum interference betwenL and R signal.

16.5. S CURVE 6,5MHZ ADJUSTMENT (SECAM D/K VERSION)

Equipment: Tracking Scope
Test point: pin 7 of IC 501 (TDA 3857) ST-G4 module
Adjust: L-503 ST-G4 module

1. Apply sweep generator signal f=30MHz to 40MMHz to the pin 1 and pin 20 of IC 501.
2. Connect Tracking Scope probe to the pin 7 of IC 501.
3. Adjust with L-503 S-curve to 6,5MHz marker.

17. DOUBLE TONE MODULE ; DT/G4

17.1. S CURVE 5,5MHZ ADJUSTMENT

Equipment: Tracking Scope
Test point: pin 13 of IC 501 (TDA 3827) G-4 chassis
Adjust: L-541 G-4 chassis

1. Apply sweep generator signal f=4MHz to 7MHz to the pin pin 20 of IC 101.
2. Connect Tracking Scope probe to the pin 13 of IC 501.
3. Adjust with L-541 S-curve to 5,5MHz marker.

17.2. S CURVE 6,5MHZ ADJUSTMENT

Equipment: Tracking Scope
Test point: pin 13 of IC 501 (TDA 3827) G-4 chassis
Adjust: L-542 G-4 chassis

1. Apply sweep generator signal f=4MHz to 7MHz to the pin 20 of IC 101.
2. Connect Tracking Scope probe to the pin 13 of IC 501.
3. Adjust with L-542 S-curve to 6,5MHz marker.

MAIN CHASSIS DESCRIPTION

This chassis was developed to be employed with stereo and mono audio decoder circuits and to drive CRT with deflection angles of 90 deg. without E-W correction.

The circuit can handle normal reception for B/G and I standards, PAL and (or) SECAM/PAL, with few modifications.
The tuning system is completely automatic with voltage syntetizer and remote control that can memorize 90 programs.

The remote control allows the control of all TV function, teletext, picture and sound. On front control pannel, there are only pushbuttons required for emergency operations of the TV set.

The chassis is completed with the SCART (PERITELEVISION) socket and can, also, handle teletekst module in CCT (Computer Controlled Teletext) system.

CHASSIS BLOCK DIAGRAM DESCRIPTION

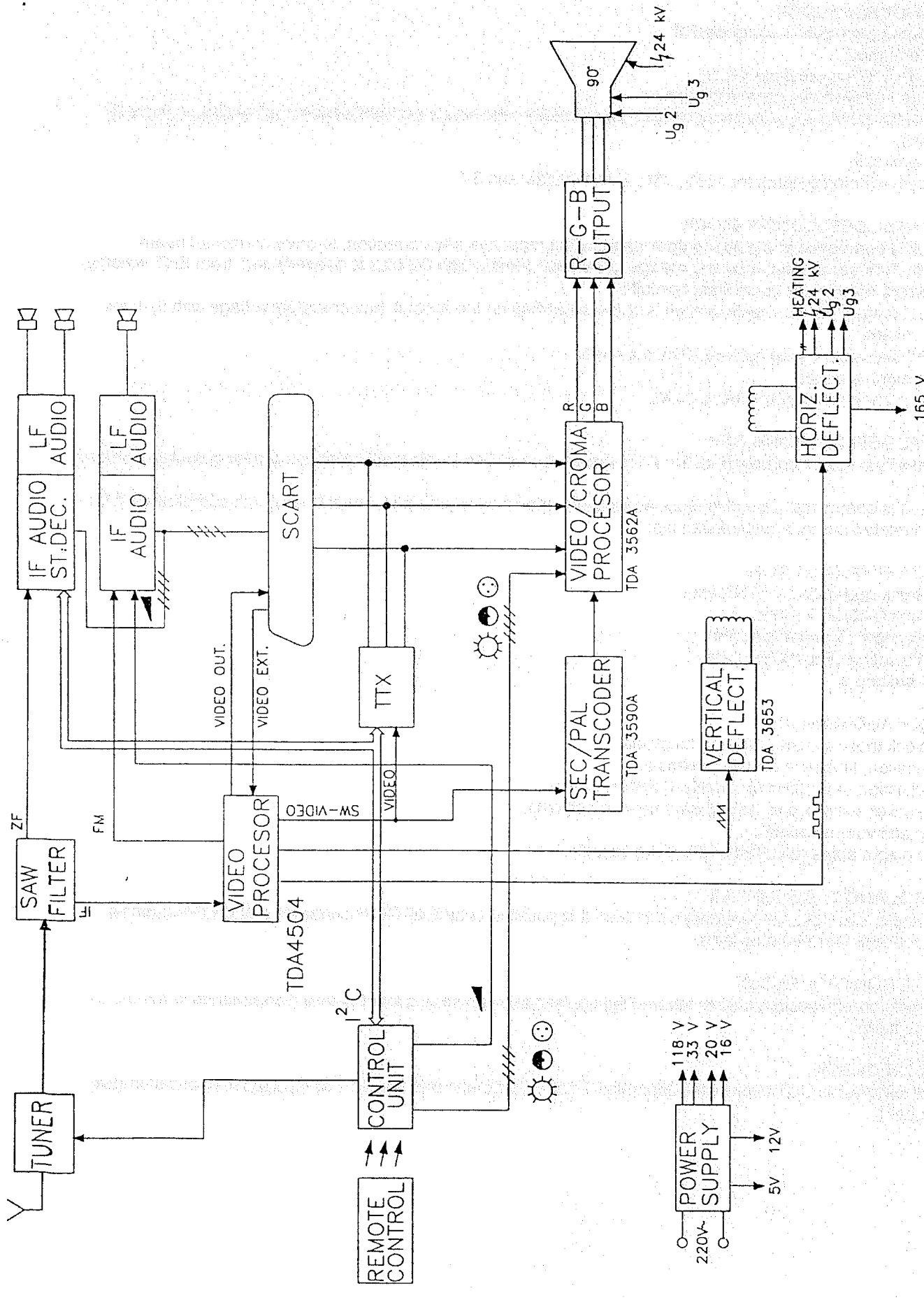
TUNER
The signal coming from the antenna socket, is converted in the tuner section, after filtering and amplification, in the IF (Intermediate Frequency) signal.
The varicap voltage, to tune the incoming signal, is obtained from a voltage syntetizer system.

VIDEO CIRCUIT BLOCK
Signal from tuner is passing though the SAW (Sourface Acoustic Wawe) filter to giving proper selectivity and attenuation to the carriers. The signal is applied to the IC TDA 4504 wich performing:
- IF signal amplification.
- IF signal detection.
- Supply video signal to the Scart socket.
- Supply video signal to the teletekst circuit.
- Supply the signal to the video/chroma circuits.
- Selection of the signal coming from antenna/scart socket.
- Supply the AGC and delayed AGC voltages.
- Supply the sync separation circuit.
- Generation of horizontal and vertical sync.
- Suply of muting voltage.
- Generation of vertical signal for the vertical output stage.
- Generation of the sand-castle signal.
- Generation of the horizontal signal to drive the horizontal output stage.

VIDEO/CROMA CIRCUIT BLOCK
The video/croma circuits elaborates the 1 V p.p. incoming composite video signal to obtain the three R-G-B signals necessary to drive the pover output amplifiers connected to the picture tube.
The oder main function relatet to this block are:
- Black level control on the three guns.
- Beam current peack limiter.
- Fast blanking for signals coming from Scart socket or teletext circuit.
- Analog controls for brightness, contrast and colour saturation.
- Luminance delay line drive.
- Chroma signals decodification.

R-G-B OUTPUT BLOCK
This circuit performs the following functions:
- R-G-B signals amplifications.
- Signal amplification to obtain, automatically, the exact working point of R-G-B output amplifiers.
- Tracking amplification for best colour temparature high/low brightness.

BLOCK DIAGRAM



SECAM/PAL TRANSCODER BLOCK
This block recognize and demodulates SECAM colour signal and, subsequently, perform PAL codification to permit normal elaboration in video/chroma PAL circuits.

POWER SUPPLY BLOCK
The pover supply block is composed of:
- Main filter circuit.
- Automatic CRT degaussing circuit.
- Full wawe rectifyer with normal filtering.
- Switch mode power supply with electrical separation from the mains and stbilisation against mains and load wariations.
- Stand-by circuit.
- Secondary winding outputs for 118V, 33V, 26V,16V,12V and 5V.

HORIZONTAL DEFLECTION BLOCK
This block is composed of a power output stage, with proper linearity correction, to drive horizontal beam deflection; EHT generation; focusing voltage generation (from which G2 bias is derived) and, from EHT winding, beam current reading for beam limiter circuits.
The output stages power supply voltage is obtained adding up the normal power supply voltage with fly-back rectified voltage.
From EHT secondary windings are, also, obtained:
- CRT filament voltage.
- Various voltages to supply other circuits.

VERTICAL DEFLECTION BLOCK
The wertical saw-tooth coming from the video circuit, is amplified in this block to obtain proper curent for vertical deflection.
This circuit is composed, also of fly-back generation, amplitude adjustment, linearity and shift compensation for CRT and related components tollerances.

FULL SCART CONNECTOR
- CVBS input and output (1V/75ohm).
- RGB input (700mV/75ohm).
- LF audio input (500mV/10Kohm).
- LF audio output (500mV/1Kohm).
- Status switching.

IF AND LF AUDIO BLOCK
In this block there are the following functions:
- Amplification, limitation and deemphasis.
- Demodulation of 5.5MHz (5.74MHz, 6.5MHz) carrier.
- Scart socket switching for sound low frequency signals.
- Muting and volume controls.
- Power output stage (class B) to drive loudspeacker.

CONTROL AND TUNING BLOCK
The tuning system used a frequency syntetizer. It is possible to tune all CCIR channels and CATV channels.
The sistem can store 90 programs.

REMOTE CONTROL BLOCK
The remote control system utilizes infrared light pulses and can send a lot of different commands to handle all TV set features.

TELETEXT BLOCK
Teletext decoder is CCT (Computer Controlled Teletext) type and can handle 1 or 4 pages memorization (two types board).

INTEGRATED CIRCUIT DESCRIPTIONS WITH BLOCK DIAGRAMS

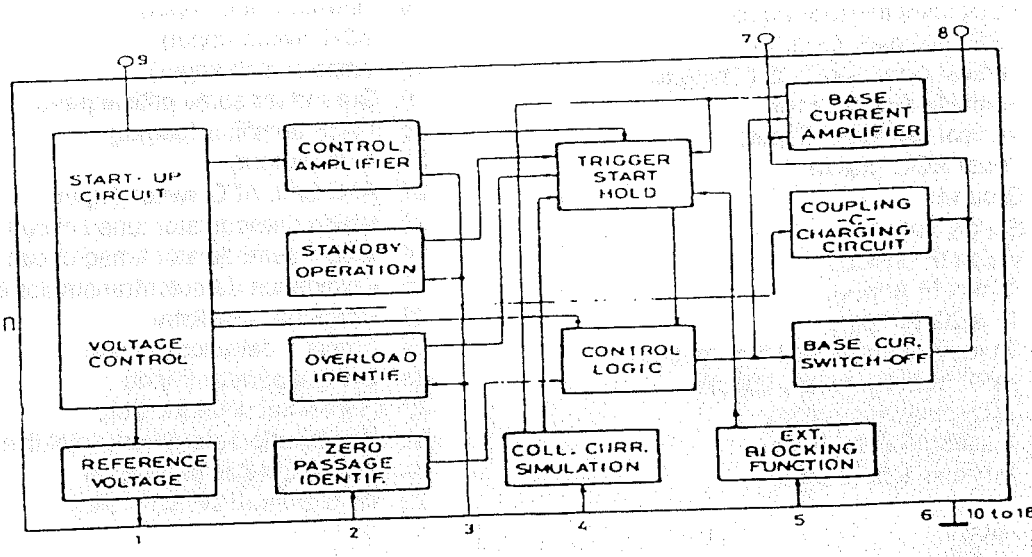
IC LINE UP

Loc No	Specification	Description
IC-01	SAA3010	Remote control transmitter
IC-101	TDA4504B	Small signal combinationfor multistandard color TV
IC-301	TDA3653B	Vertical deflection and guard circuit
IC-401	SAA5244P/A	Integrated VIP and Teletext
IC-401	SAA5246P/H	Integrated VIP and Teletext
IC-402	SRAM8K8	8 K x 8 fast CMOS RAM
IC-403	PCF84C81	8-bit microcontroller
IC-404	PCF8582	256 x 8-bit static CMOS EEPROM
IC-501	TDA3827	TV-sound demodulatorcircuitwith SCART switches and AF control
IC-501	TDA3857	Quazi-split sound processor with two FM demodulators
IC-502	TDA8417	TV and VTR stereo dual sound processor
IC-503	TDA8425	Hi-fi stereo audio procesor
IC-504	TDA7057Q	2 x 3 W stereo BTL audio output
IC-551	TDA2611A	5 W audio amplifier
IC-651	TDA4601	Switch-mode power supply controller
IC-701	TDA3592A	SECAM-PAL trenscoder
IC-801	TDA3566A	PAL/NTSC decoder
IC-901	CTV350S	Voltagesynthesis tuningsystems (stereo)
IC-901	PCA84C644	Voltage synthesis tuning systems (mono)
IC-902	PCF8582	256 x 8-bit static CMOS EEPROM
IC-903	74LS241	Octalbufer/linedrivers with 3-state output
IC-981	TA8141S	Pre amp for infrared ray remote control

TDA4601
Switch-mode power supply controller

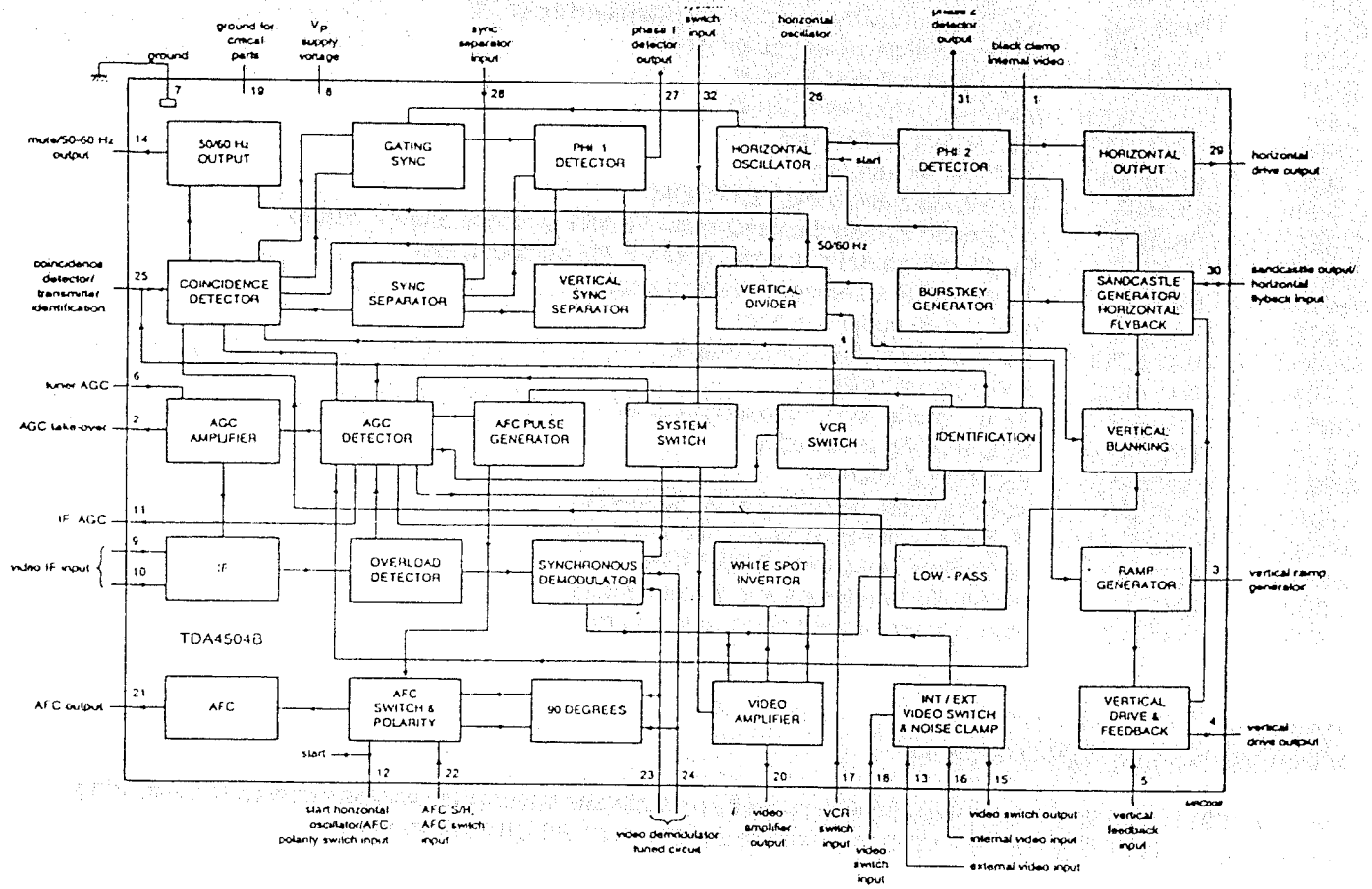
The TDA4601 is monolithic integrated circuit designedto regulate and control the switching transistor a switching power supply. It is wide operational range and voltage stability even at high load changes.

1	Reference output
2	Zero pasage identification
3	Input control
4	Collector current simulation
5	External protection threshold
6	Ground
7	DC output
8	Pulse output
9	Supply voltage



TDA4504B
Small signal combination for multistandard colour TV

Having the capability to demodulate IF signals with either positive or negative-going video information, the TDA4504B is contained within a 32 pin encapsulation. It includes a three- stage vision IF amplifier, mute circuit, AFC and AGC circuitry, fully synchronised horizontal and vertical timebases with drive circuits and integral three-level sandcastle pulse generator. A functional colour tv receiver can thus be realized with the addition of a tuner, audio demodulator and amplifier, chroma decoder and respective line and field deflection circuitry.

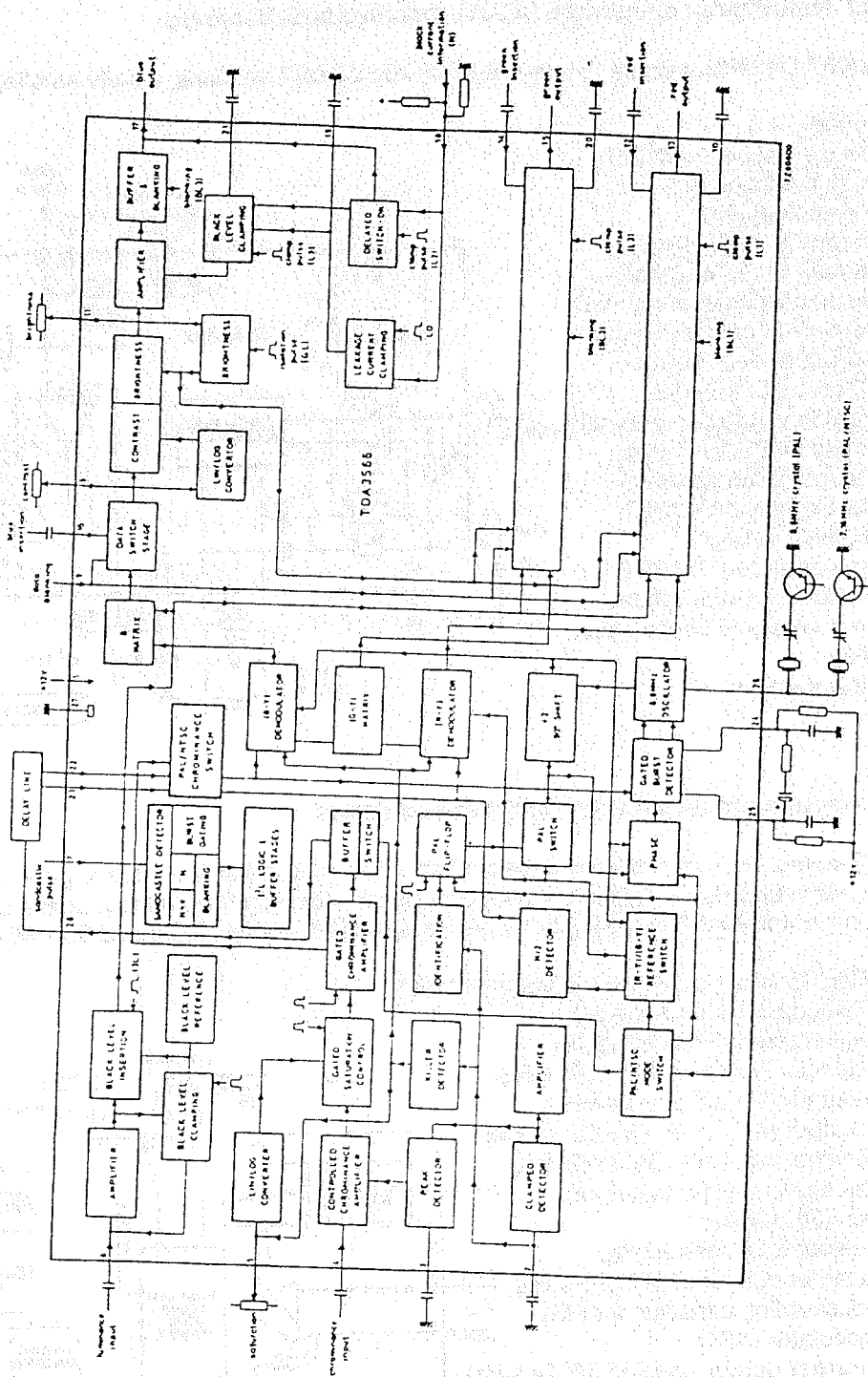


1 Black level internal video
2 AGC take over (output)
3 Vertical ramp generator (output)
4 Vertical drive (output)
5 Vertical feedback (input)
6 Tuner AGC (input)
7 Ground
8 Supply voltage
9 Vision IF (input)
10 Vision IF (input)
11 IF AGC (output)
12 Start horizontal oscillator (output) /AFC polarity switch (input)
13 External video (input)
14 Mute/50/60 Hz (output)
15 Video switch (output)
16 Internal video (input)
17 VCR switch (input)
18 Video switch (input)
19 Ground for some critical parts
20 Video amplifier (output)
21 AFC (output)
22 AFC S/H, AFC switch (input)
23 Vision demodulator tuned circuit
24 Vision demodulator tuned circuit
25 Coicidence detector/transmitter identification
26 Horizontal oscillator
27 Phase 1 detector (output)
28 Sync separator (input)
29 Horizontal drive (output)
30 Sandcastle output/horizontal flyback (input)
31 Phase 2 detector (output)
32 AGC system switch (input)

TDA3566
PAL/NTSC decoder

The TDA3566 is a monolithic integrated decoder for the PAL and/or NTSC colour television standard. It combines all functions required for the identification and demodulation of PAL/NTSC signals. It contains a lurninance amplifier, an RGB-matrix and amplifier. These amplifiers supply output signals up to 4 V peak-to-peak (picture information) enabling direct drive of the discrete output stages. The circuit also contains separate inputs for data insertion, analogue as well as digital, wich can be used for text display system (e.g. Teletext/broadcast antiope),channel number display, etc.

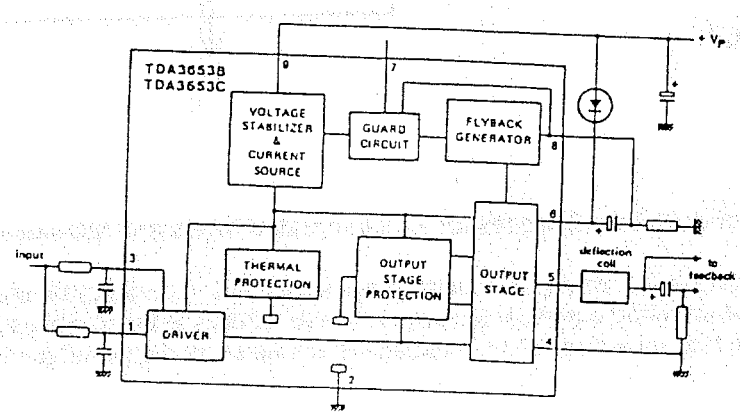
1 Supply voltage
2 Clamped detector
3 Peak detector
4 Chrominance input
5 Input voltage for saturation control
6 Input voltage for contrast control
7 Sandcastle pulse input
8 Luminance control
9 Data blanking
10,20,21 R-G-B gnd
11 Input voltage for brightness control
12 Red insertion
13 Red autput
14 Green insertion
15 Green output
16 Blue insertio
17 Blue output
18 Black current input information (cut-off)
19 Cut-off gnd
22,23,28 Dilay line conection
24,25 Gated burst detector
26 Oscilator 8,8MHz
27 Ground



TDA3653B
Vertical deflection and guard circuit (90 deg.)

The TDA3653B is a vertical deflection output circuit for drive of various deflection systems with currents up to 1.5 A peak-to-peak.

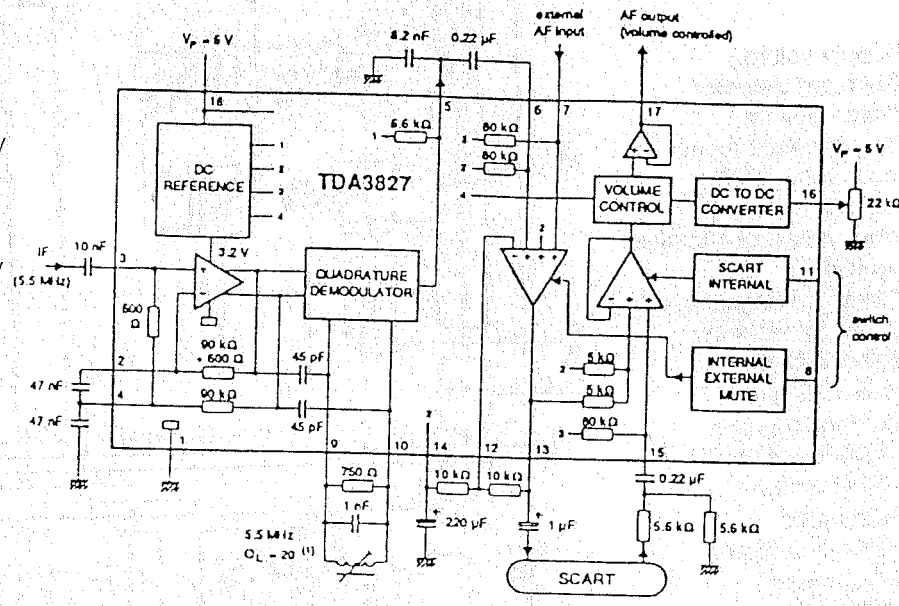
1,3 Input voltage during scan
2 Ground
4 Ground
5 Output
6 Supply voltage output stage
7 External voltage
8 Flyback generator
9 Supply voltage 26V



TDA3827
TV-sound demodulator circuit with SCART switches and AF control

The TDA3827 contains a single FM demodulator with SCART switches, a mute function and volume control.

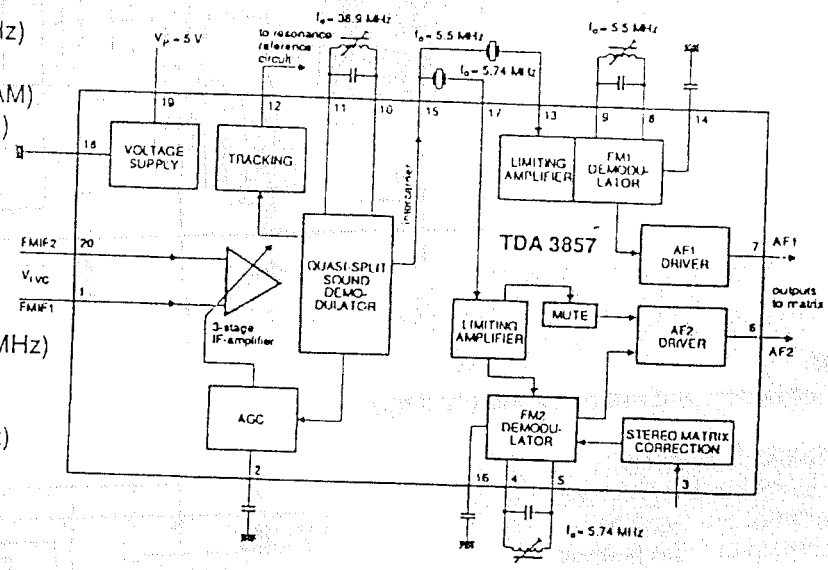
1 Ground
2,4 Limiter amplifier feedback
3 FM IF input signal
5 AF output signal
6 Internal AF input signal
7 External AF input signal
8 Selection voltage for internal/ external AF input and mute
9,10 Quadrature demodulator tuned circuit reference
11 Selection voltage for internal/ external or SCART audio
12 Source selector feedback
13 Output signal to SCART
14 Reference voltage
15 Input signal from SCART
16 DC volume control voltage
17 AF output signal from volume control
18 Supply voltage



TDA3857
Quasi-split sound processor with two FM demodulators

Symetric IF inputs. Gain controlled wideband IF amplifier. AGC generation due to peak sync. Reference amplifier for AM suppression in the regenerated vision carrier signal and 90deg. phase shifer. Intercarrier mixer for FM sound, output with low- pas filter. Separate signal processing for 5.5 and 5.74 MHz intercarriers.

1,20 IF diferenceinput for B/G standard (38.9 MHz)
2 Charge capacitor for AM AGC
3 Input for stereo matrix correction
4,5 Reference circuit for FM2 (5.74 MHz)
6 AF2 output (AF out of 5.74 MHz)
7 AF2 output (AF out of 5.5 MHz or AM)
8,9 Reference circuit for FM1 (5.5 MHz)
10,11 Reference circuit for the vision carrier (38.9 MHz)
12 DC output level for tracking
13 Intercarrier input for FM1 (5.5 MHz)
14 DC-decoupling capacitor for FM1 demodulator (AF1)
15 Intercarrier output signal (5.5/5.74 MHz)
16 DC-decoupling capacitor for FM2 demodulator (AF2)
17 Intercarrier input for FM2 (5.74 MHz)
18 Ground
19 Supply voltage

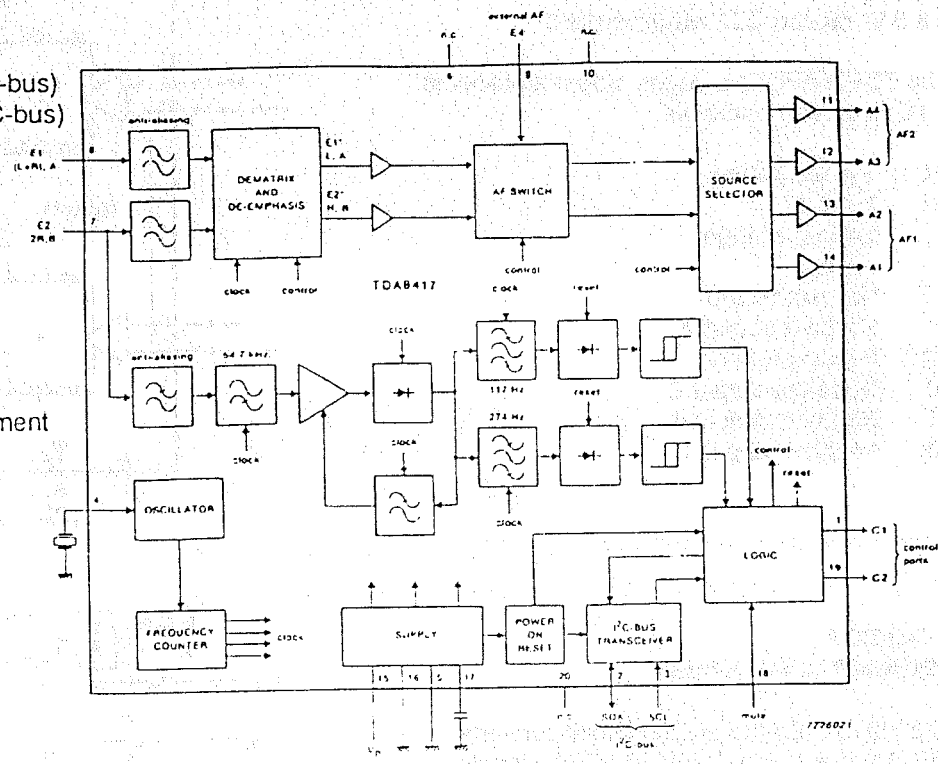


TDA8417
TV and VTR stereo/dual sound processor with integrated filters and I2C-bus control

The TDA8417 is a processor of stereo/dual language signal (B/G- standard) for stereo sound television receivers, using the switched-capacitor technique. The AF signals at the IC inputs must be "(L+R)/2" or "language A" on one channel and "R" or "language B" on the second channel (L=left, R=right). The carrier

frequency of the second channel is also modulated by an identification signal (stereo or dual sound). The device is controlled by microcomputer via the two-line, biderectionalI2C- bus.

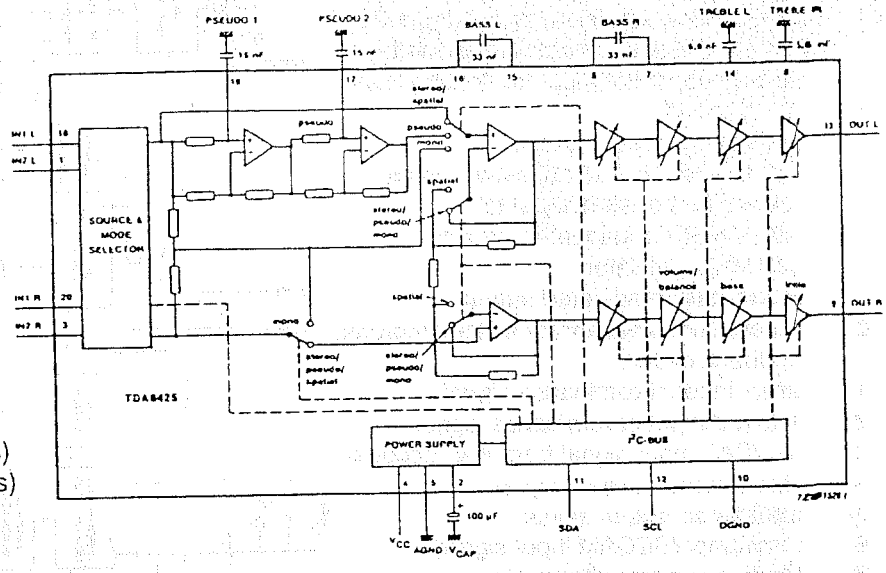
1,19 Control port
2 SDA, serial data line (I2C-bus)
3 SCL, serial clock line (I2C-bus)
4 Oscilator input (or kvartz)
5 Digital ground (0V)
9 External AF inputs
7 Sound channel input AF2
8 Sound channel input AF1
11,12 AF2 output
13,14 AF1 output
15 Supply voltage
16 Analogue ground (0V)
17 Ripple rejection improvement
18 Mute input
6,10,20 Not connected



TDA8425
Hi-fi stereo audio procesor;I2C-bus

The TDA8425 is a monolithic bipolar integrated stereo sound circuit with a loudspeaker channel facility, digitally controlled via I2C-bus.

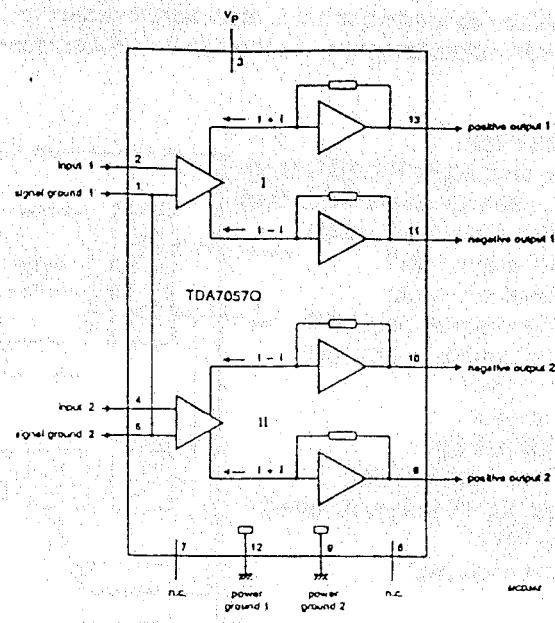
1,18 Inputs L
2 External capacitor Vcap
3,20 Inputs R
4 Supply voltage
5 Analogue ground (0V)
6,7 Bass R
8 Treble R
9 Output R
10 Digital ground (0V)
11 SDA, serial data line (I2C-bus)
12 SCL, serial clock line (I2C-bus)
13 Output L
14 Treble L
15,16 Bass L
17 Pseudo 2
19 Pseudo 1



TDA7057Q
2 x 3 W stereo BTL audio output

The TDA7057Q is a stereo output amplifier in a 13 pin power package.

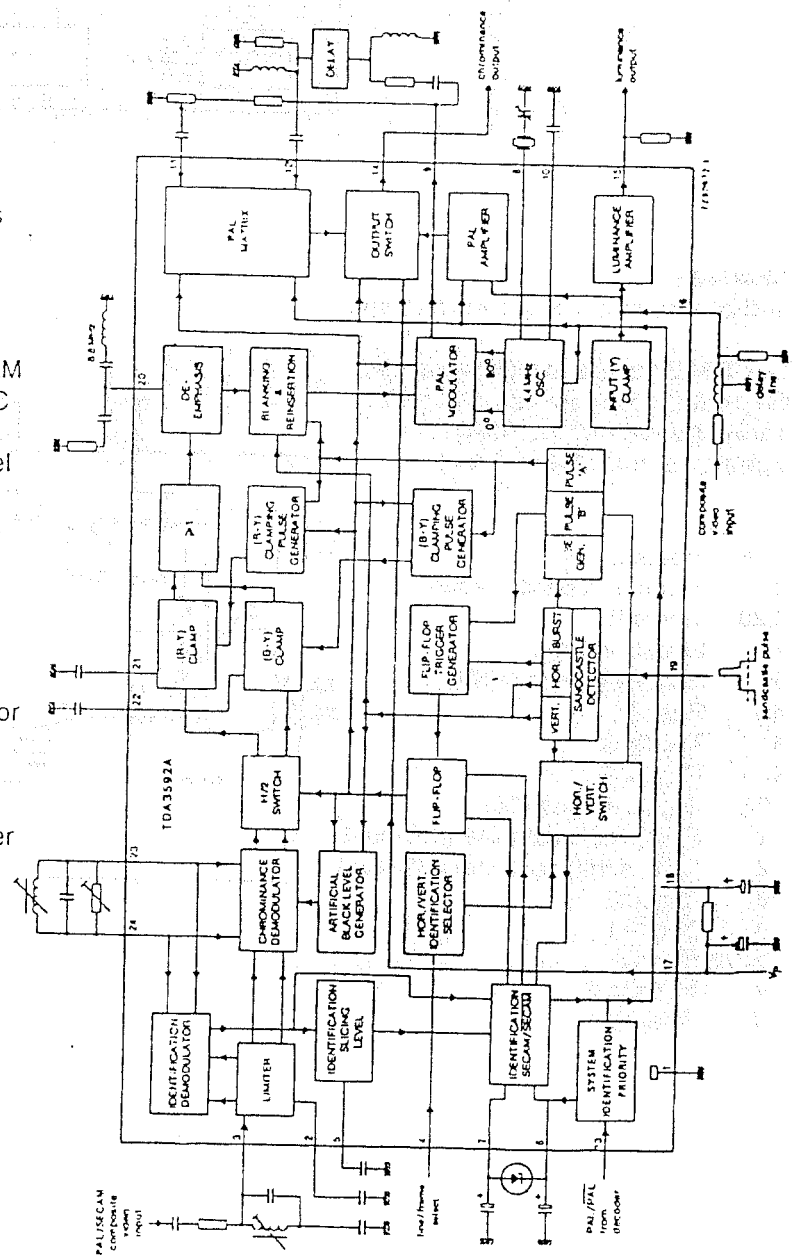
1,5 Signal ground
2 Input 1
3 Supply voltage
4 Input 2
6,7 Not connected
8 Positive output 2
9,12 Power ground
10 Negative output 2
11 Negative output 1
13 Positive output 1



TDA3592A
SECAM-PAL transcoder

The TDA5392A transcoder circuit converts SECAM input signals into true PAL signals, and can be used in combination with all types of PAL decoder.

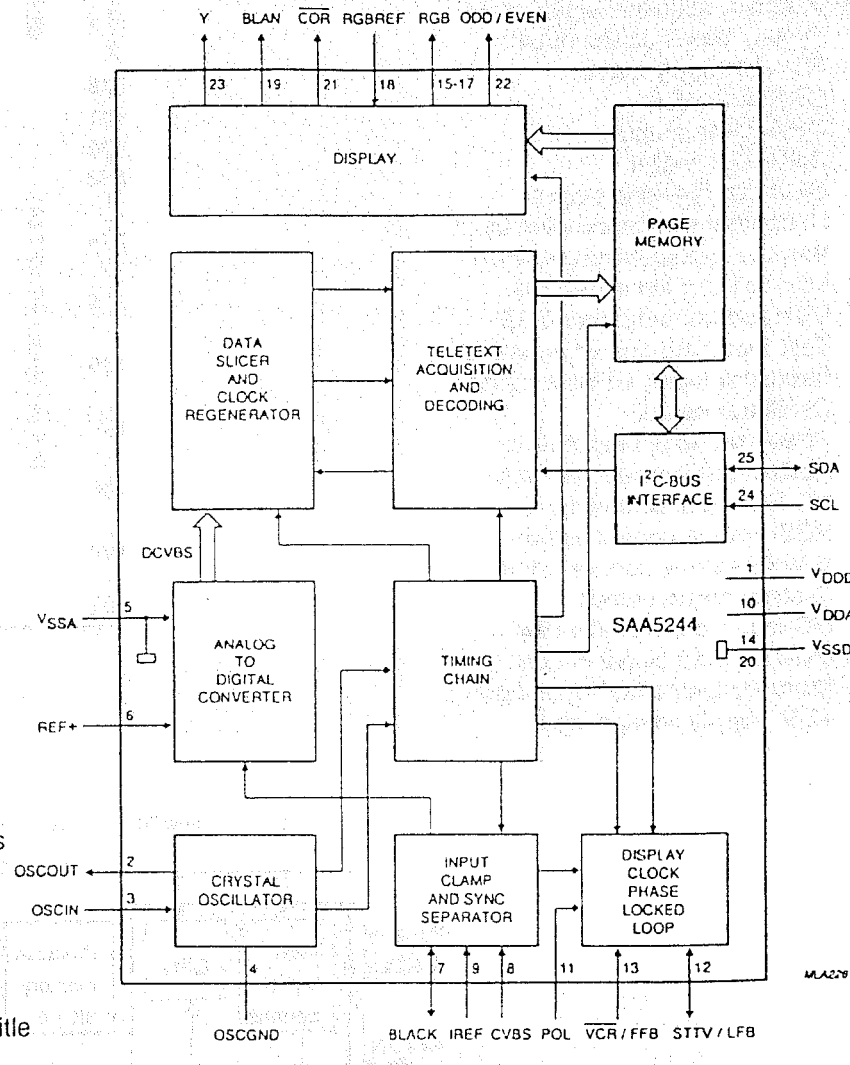
1 Ground
2 Limiter feedback
3 Limiter input: chrominance input SECAM
4 Identification selection input using a DC level to preset the identification mode
5 Storage capacitor input for floating level identification
6 Storage capacitor input to SECAM/SECAM identification circuit
7 Duble time-constant input to SECAM/SECAM identfic. circuit
8 4,43 MHz oscillator
9 Sequentally modulated output
10 Decoupling capacitor for miller integrator feedback circuit
11 Direct input chrominance signal
12 Delayed input chrominance signal
13 PAL/PAL input signal from PAL decoder
14 Chrominance output signal
15 Luminance output signal
16 Luminance/SECAM input signal
17 Positive supply voltage (Vp)
18 Decoupled positive supply voltage
19 Three-level sandcastle pulse input
20 De-emphasis circuit connection
21 Storage capacitor connection for (R-Y) clamp
22 Storage capacitor connection for (B-Y) clamp
23,24 Demodulator reference tuned circuit



SAA5244P/A
Integrated VIP and Teletext (IVT1.1)

The integrated VIP and Teletext (IVT1.1) is a teletext decoder for decoding 625-line based World System Teletext transmissions. The teletext decoder hardwere is based on a reduced function version of the Enhanced Computer Controlled Teletext (ECCT) device. The Video Input Procesor (VIP) section of the device uses mixed analog and digitaldesigns for the data slicer and the display clock phase-locked loop functions. As a result the number of external component is greatly reduced and no critial or adjustable components are required. A single page static ROM is incorporated in the device there by giving a genuine single-chip teletext decoder device.

1 +5 V supply to the digital section of the device
2 27 MHz crystal oscilator output
3 27 MHz crystal oscilator input
4 0 V crystal oscillator ground
5 0 V analog ground
6 Positive reference voltage for the ADC
7 Video black level storage pin
8 Composite video input pin
9 Reference current input pin
10 +5 V supply to the analog sections of the device
11 STTV/LFB/FFB polarity selection pin
12 Sync to TV outputpin/line flyback input pin
13 PLL time constant switch/field flyback input pin
14 Connected to Vssd for normal operation
15 Dot rate character output of the RED colour information
16 Dot rate character output of the GREEN colour information
17 Dot rate character output of the BLUE colour information
18 Input DC voltage to define the output high level on theRGB pins
19 Dot rate for blanking output
20 0 V digital ground
21 Programmable output to provide contrast reduction of the TV for mixed text and picture display sorwhen viewing newsflash/subtitle pages

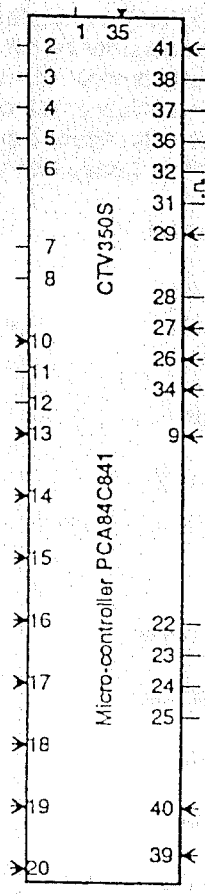


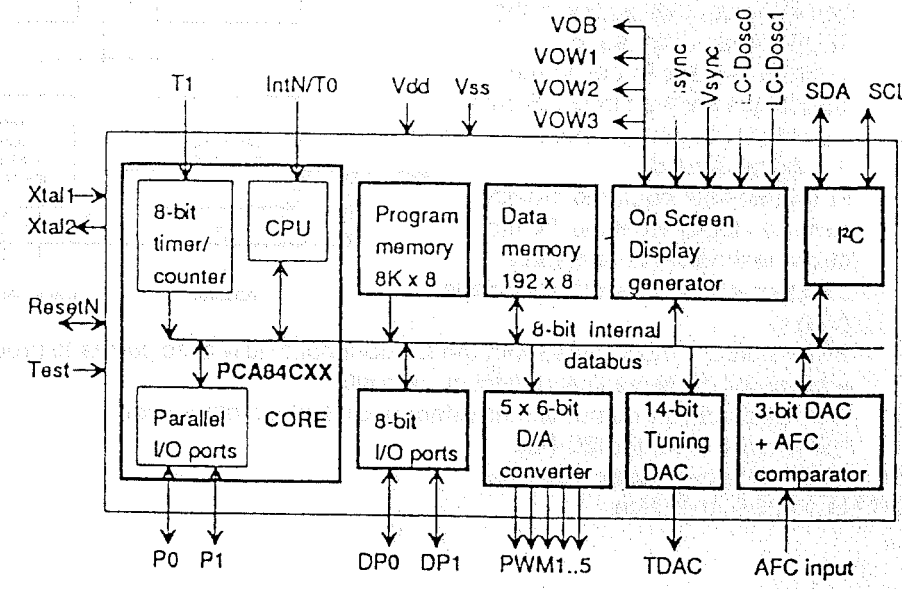
22 25 Hz output synchronized with the CVBS input's field sync pulses to produce a non-interlaced display by adjustment of the vertical deflection currents
23 Dotrate character output ofteletextforegroundcolour information
24 Serial clock input for I2C-bus
25 Serial data port for the I2C-bus
26-40 Internally connected

CTV350S
Voltage Synthesis Tuning systems

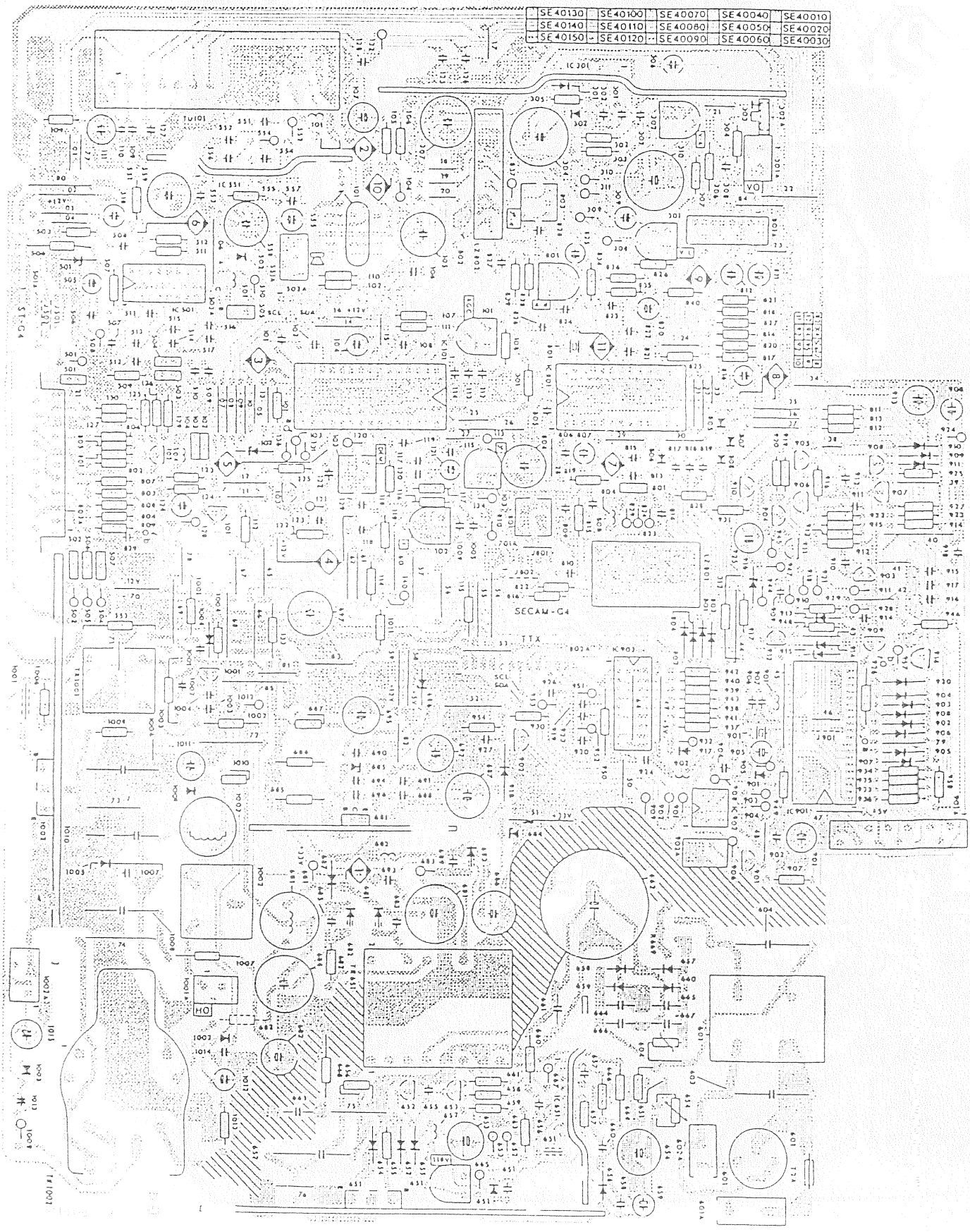
CTV350 is a low cost television receiver control system, based on the PCF84C841 microcontroller. It is a voltage synthesis tuning (VST) system with on-screen-display (OSD) of all relevant control function. Analo gue settings are controlled by 4 on-chip digital to analogue convertors. Sound volume can be controlled by the fifth on-chip digital to analogue convertor in a mono-only system. Full sound (Volume,Bass,Treble,Balance) can be controlled via the I2C-bus.

1 Tuning voltage control output
2 Volume control output
3 Brightness control output
4 Colour control output
5 Contrast control output
6 Hue control output
7 Band-switch 0 output
8 Band-switch 1 output
9 Analogue AFC sense input
10 AV Status input
11 VTR control output
12 AV/CVBS control output
13-19 Keybord scan line input/output
20 System mode strobe output
21 Ground supply input
22 OSD red output
23 OSD green output
24 OSD blue output
25 OSD fast blanking output
26 Horizontal synchronization input
27 Vertical synchronization input
28 LC oscillator input for OSD
29 LC oscillator output for OSD
30 Test input; connected to ground
31 Oscillator input; 10 MHz crystal
32 Oscillator output
33 Power-on reset input/output
34 Horizontal coincidence input
35 RC-5 remote control input
36 RGB source control output
37 S-VHS source control output
38 System select output
39 I2C-bus clock signal output
40 I2C-bus data signal output
41 Standby/On control input/output
42 +5 V supply voltage input

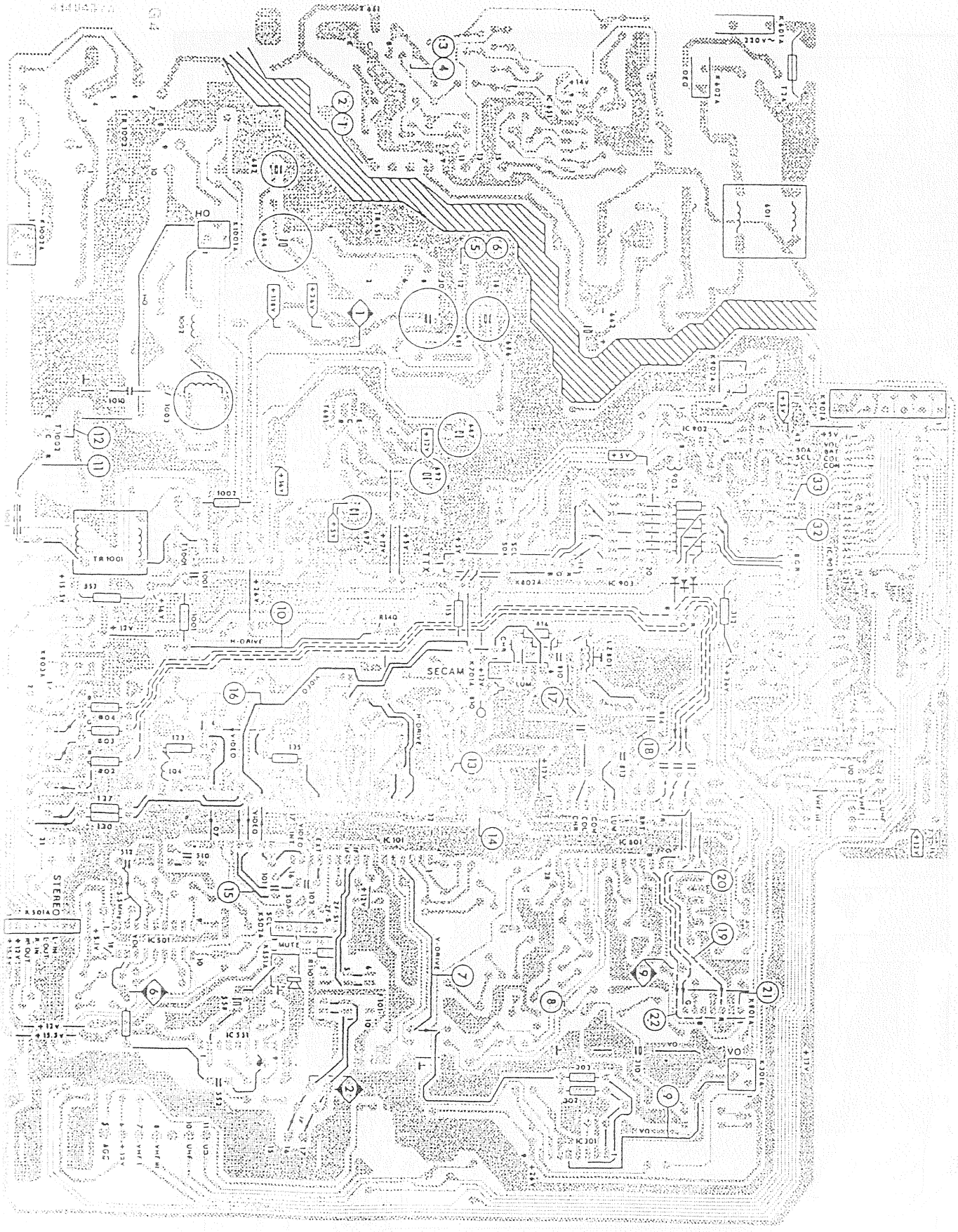




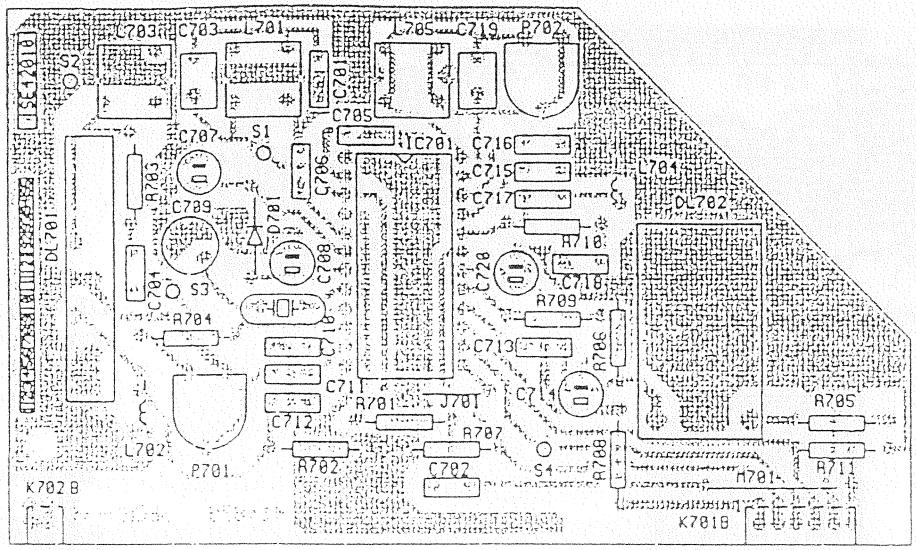
G4 CHASSIS (component side)



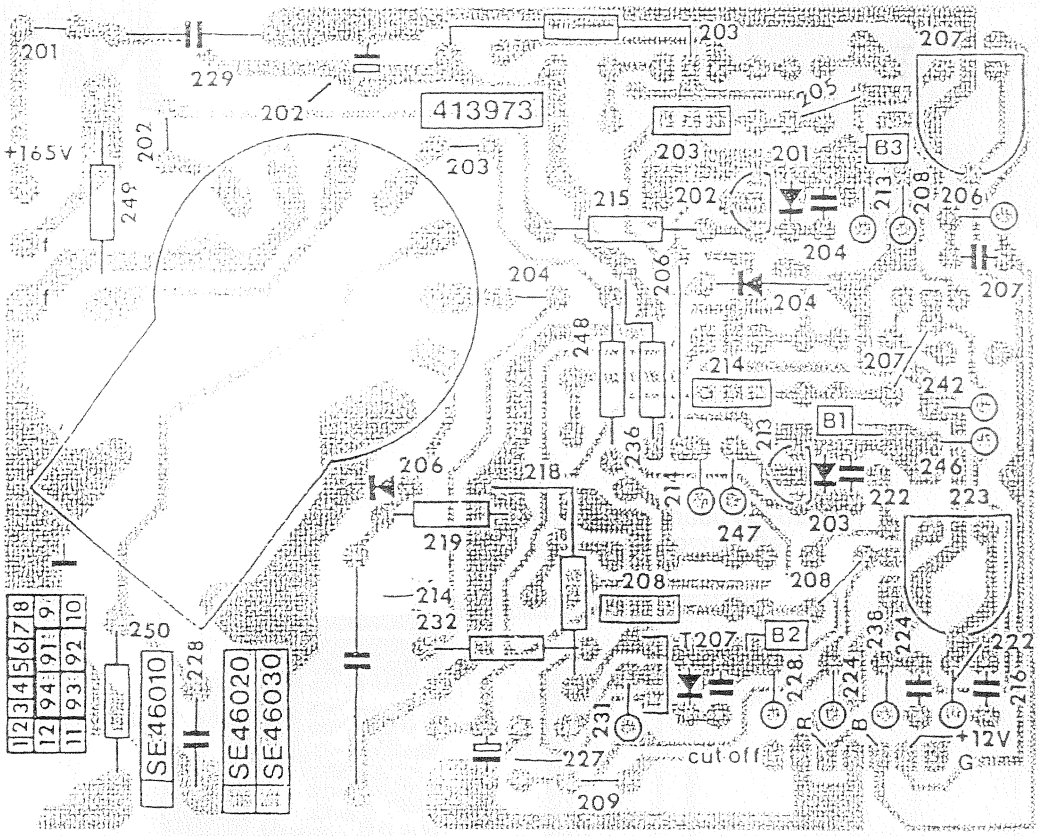
G4 CHASSIS (solder side)



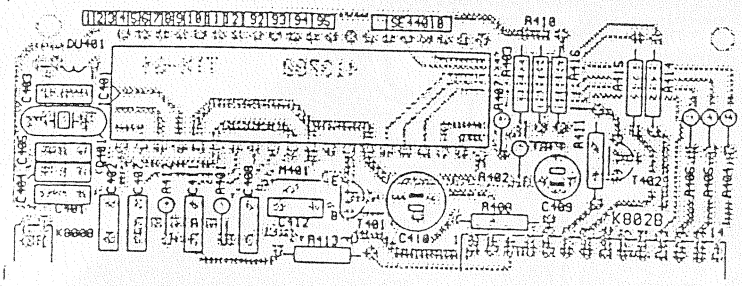
SECAM - G4 board (component side)
SE 42010 414885



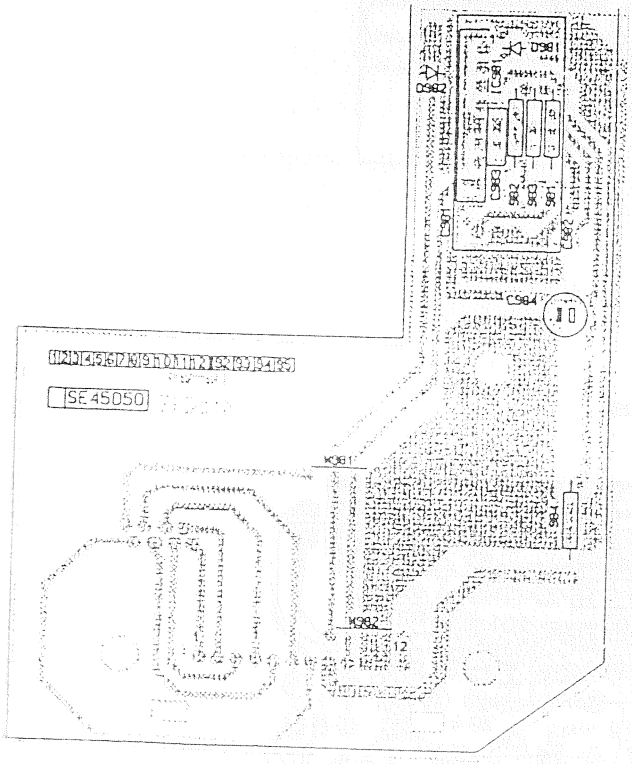
VK - G4 board (component side)
(see table 1)



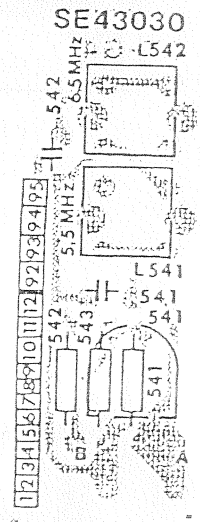
TTX - G4 board (component side)
SE 44010 413756
SE 44050 415735



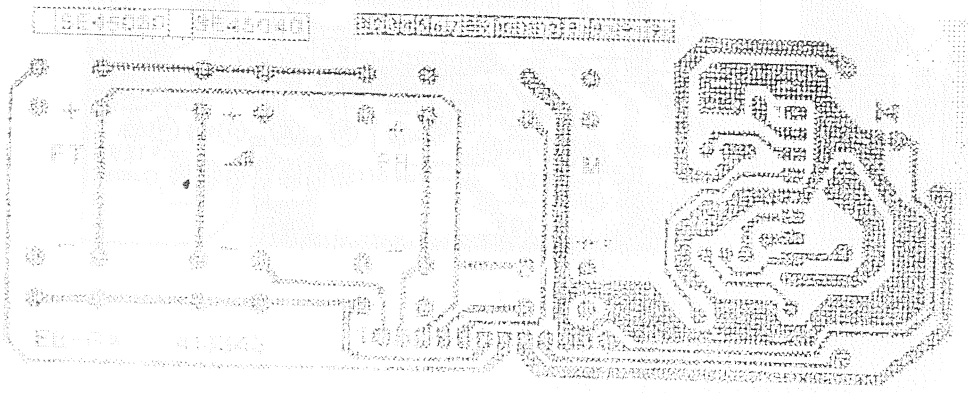
TG - G4 board (component side)
SE 45050 415239



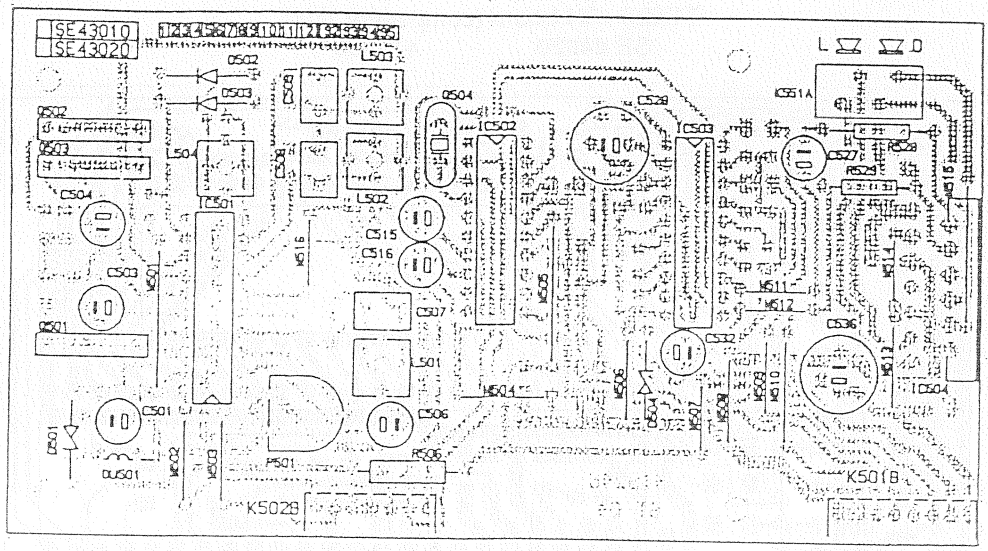
DT-G4 board
(comp. side)
SE 43030
414986



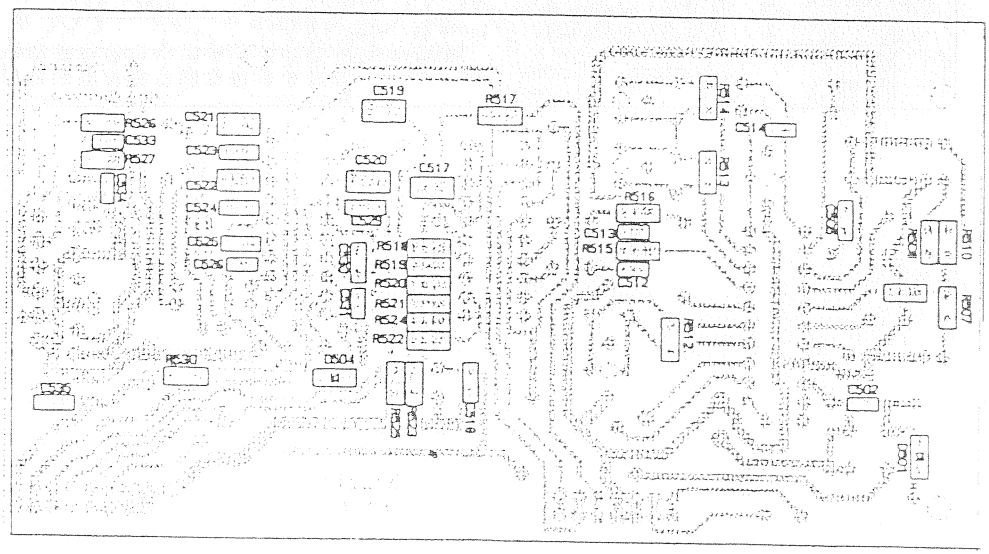
EB-G4 board (solder side)
SE 45030 414032



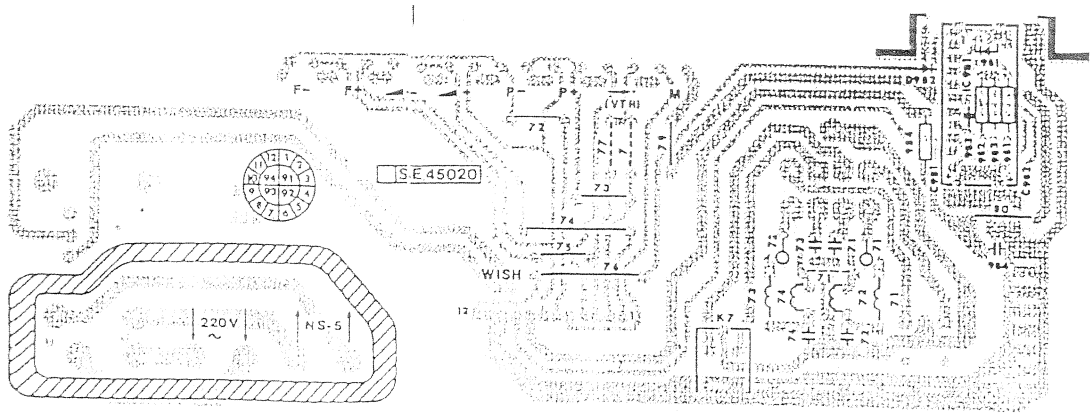
ST - G4 board (component side)
SE 43010 415116



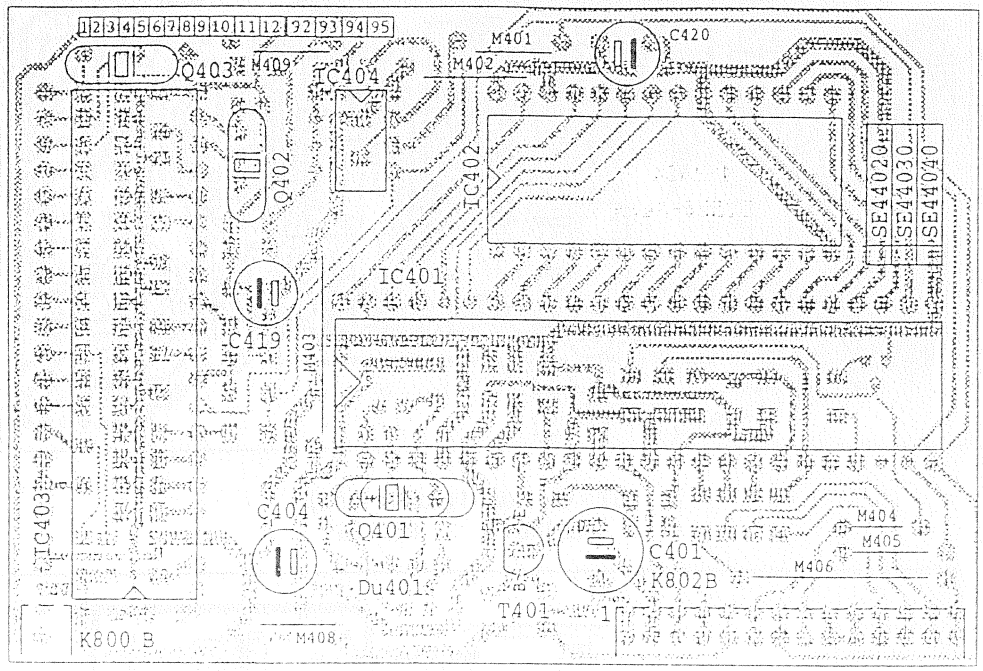
ST - G4 board (solder side)
SE 43010 415116



TC - G4 board (component side)
SE 45070 415459



TTX26 - G4 board (component side)
SE 44020 413353



DIADEM

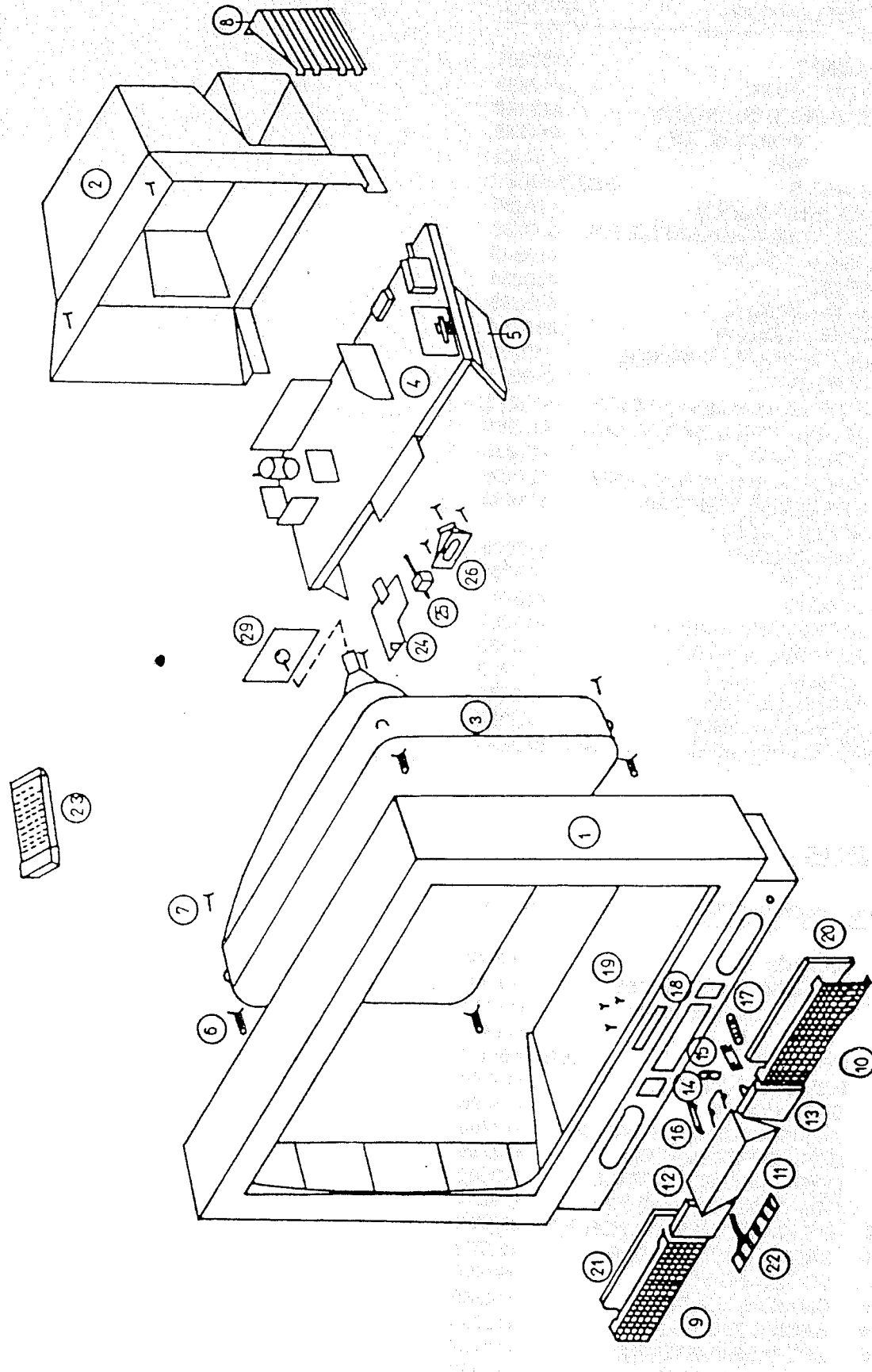
POS.	DESCRIPTION	PART NO.
1.	CABINET	413291
2.	BACK COVER	413293
3.	PICTURE TUBE NOKIA	413190
	VIDEOCOLOR	414745
	WF	414942
4.	CHASSIS	SEE TABLE 1
5.	CHASSIS HOLDER	414285
6.	DISTANCE WASHER FOR P.T.	413286
7.	SCREW FOR P.T.	413585
8.	COVER	413234
9.	METAL GRILL L	413265
10.	METAL GRILL R	413264
11.	DOOR, FRONT CONTROL	413275
12.	WINDOW IR	413276
13.	BUTTON FOR MAIN SWITCH	413278
14.	SPRING FOR CONTROL UNIT	413289
15	DOOR SWITCH	413295
16.	HINGE FOR CONTROL UNIT	367526
17.	SPRING FOR BUTTON	411642
18.	BRAND LABEL	
19.	PCB HOLDER	317225
20.	FOAM R	413270
21.	FOAM L	413271
22.	MEMBRANE SWITCH	413287
23.	REMOTE CONTROL	415286
24.	TG-G4 PCB ASSY	415239
25.	MAINS SWITCH	368495
26.	SPEAKER 8 OHM	413433
29.	VK-G4 PCB ASSY	SEE TABLE 1

NIMBUS

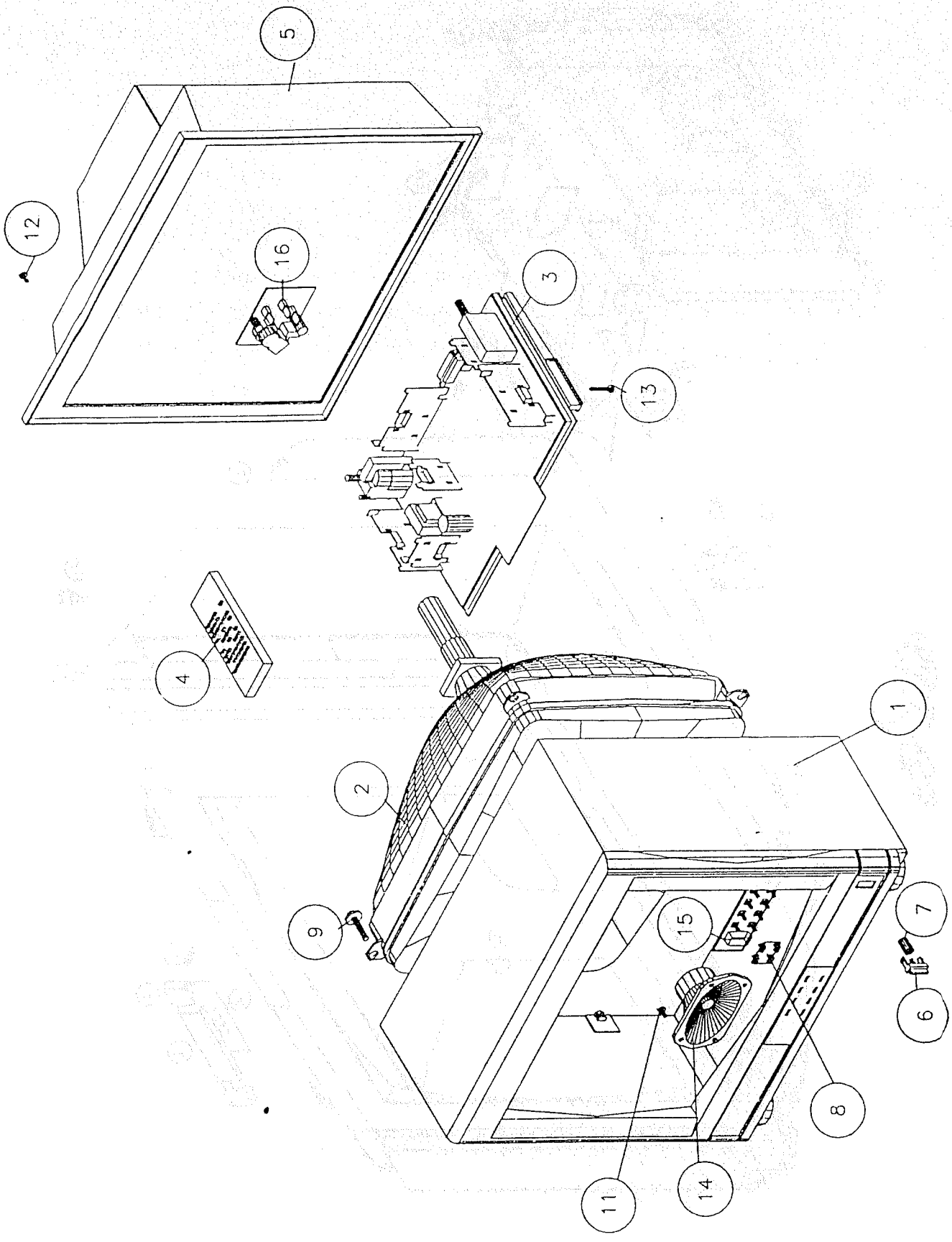
POS.	DESCRIPTION	PART NO.
1.	CABINET	413679
2.	PICTURE TUBE NOKIA	413140
	VIDEOCOLOR	414745
	WF	414942
3.	CHASSIS	SEE TABLE 1
4.	REMOTE CONTROL	415088
5.	BACK COVER	413696
6.	BUTTON FOR MAIN SWITCH	413700
7.	SPRING FOR BUTTON	413705
8.	DOOR, FRONT CONTROL	413699
9.	CONTROL UNIT PLAQUE	414824
10.	DISTANCE WASHER FOR P.T.	413704
11.	BACK COVER HOLDER	413709
12.	SCREW FOR P.T.	368496
13.	CHASSIS HOLDER L	414285
14.	BACK COVER CLIP	413703
15	SPEAKER FASTENER	413702
16.	SPEAKER 8 OHM	413432
17.	TC-G4 PCB ASSY	414825
18.	VK-G4 PCB ASSY	SEE TABLE 1
19.	FOOT	413710

EXPLODED VIEW

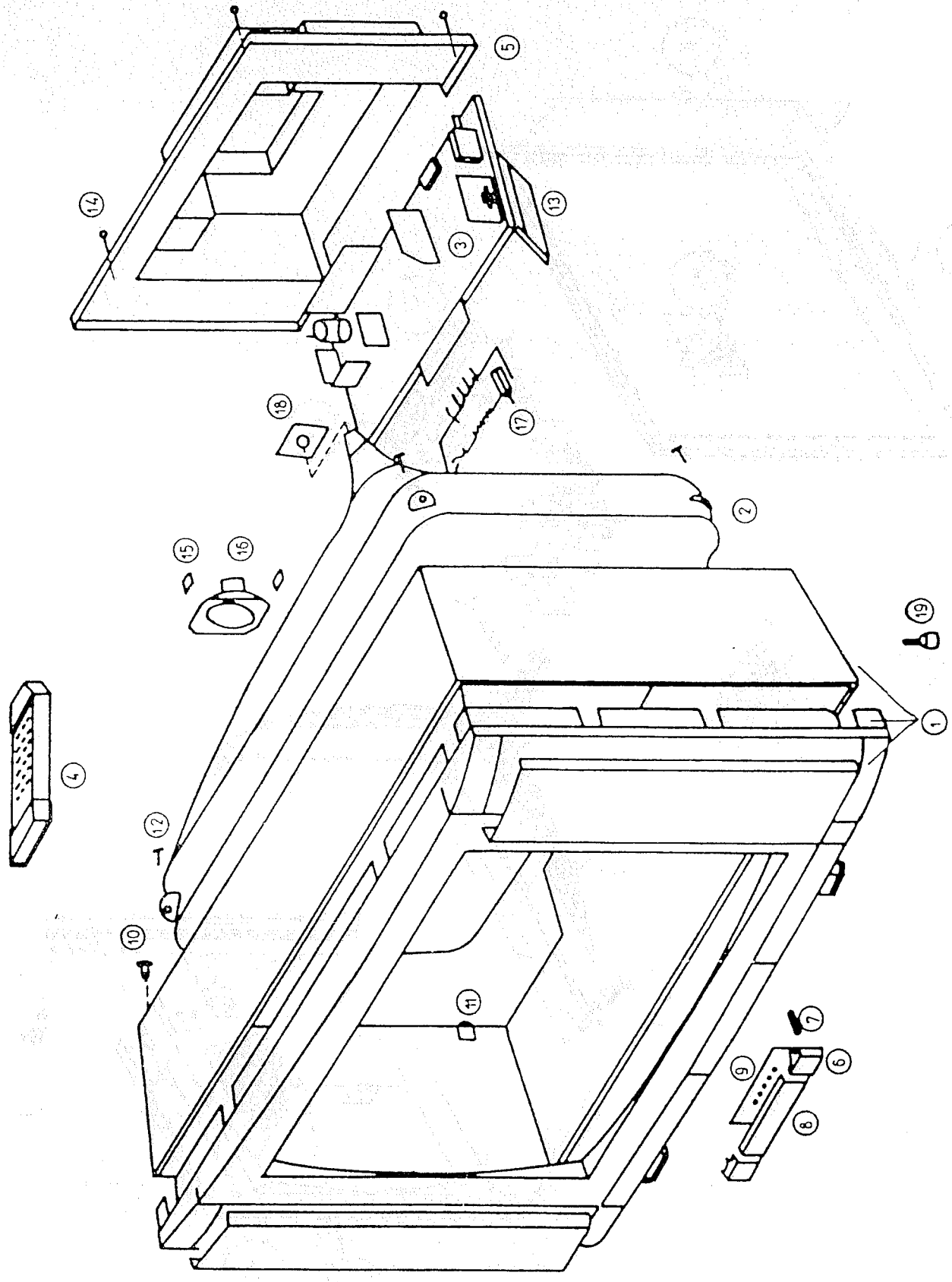
DIADEM



EXPLODED VIEW
EARLY BIRD



EXPLODED VIEW
NIMBUS



PARTS LIST

COMPONENT MARKED WITH SAFETY MARK ! ARE IMPORTANT
FOR SAFETY. THEY SHOULD BE REPLACED BY ORGINAL COMPONENTS.

S ... SAFETY RELATED COMPONENT - SEE WARING ABOVE!

S	POS.	PART NO.	DESCRIPTION	SPECIFICATION
	MAIN CHASSIS (WITHOUT BOARDS) PART NO. (SEE TABLE 2)			
	RESISTORS			
	R-101	68136	RESISTOR,CARBON FILM	330R J 0,25W
	R-102	52769	RESISTOR,CARBON FILM	15K J 0,25W
	R-103	410153	RESISTOR,CARBON FILM	10K J 0,25W
	R-104	410185	RESISTOR,CARBON FILM	6K8 J 0,33W
	R-105	58242	RESISTOR,CARBON FILM	180R J 0,25W
	R-106	69874	RESISTOR,CARBON FILM	33K J 0,33W
	R-107	68171	RESISTOR,CARBON FILM	2,7K J 0,33W
	R-108	69874	RESISTOR,CARBON FILM	33K J 0,33W
!	R-109	372123	RESISTOR,FUSIBLE	2,2R J 0,33W
	R-110	316694	RESISTOR,CARBON FILM	4,7R J 0,33W
	R-111	415515	RESISTOR,METAL FILM	1,5M J 0,33W
	R-112	318711	RESISTOR,CARBON FILM	4,7M J 0,25W
	R-113	413759	RESISTOR,CARBON FILM	82K J 0,33W
	R-114	39041	RESISTOR,CARBON FILM	1,5K J 0,33W
	R-115	338570	RESISTOR,CARBON FILM	1,8K J 0,33W
	R-116	69874	RESISTOR,CARBON FILM	33K J 0,33W
	R-117	68170	RESISTOR,CARBON FILM	3,3K J 0,33W
	R-118	69880	RESISTOR,CARBON FILM	180K J 0,33W
	R-119	341492	RESISTOR,CARBON FILM	820K J 0,33W
	R-120	313596	RESISTOR,METAL FILM	3,3K J 0,25W
	R-121	378835	RESISTOR,CARBON FILM	100K J 0,33W
	R-122	68152	RESISTOR,CARBON FILM	100K J 0,25W
	R-123	313751	RESISTOR,CARBON FILM	82R J 0,25W
	R-124	53004	RESISTOR,CARBON FILM	680R J 0,25W
	R-125	68173	RESISTOR,CARBON FILM	1K J 0,33W
	R-126	68173	RESISTOR,CARBON FILM	1K J 0,33W
	R-127	79004	RESISTOR,CARBON FILM	22R J 0,33W
	R-128	378833	RESISTOR,CARBON FILM	47R J 0,33W
	R-129	52774	RESISTOR,CARBON FILM	56R J 0,25W
	R-130	79004	RESISTOR,CARBON FILM	22R J 0,33W
	R-131	410231	RESISTOR,CARBON FILM	15K J 0,33W
	R-132	410197	RESISTOR,CARBON FILM	1K J 0,33W
	R-133	68305	RESISTOR,CARBON FILM	150K J 0,25W
	R-134	411063	RESISTOR,CARBON FILM	47K J 0,33W
	R-135	68146	RESISTOR,CARBON FILM	100R J 0,33W
	R-136	410228	RESISTOR,CARBON FILM	39K J 0,33W
	R-140	410199	RESISTOR,CARBON FILM	1K8 J 0,33W
	R-301	68173	RESISTOR,CARBON FILM	1K J 0,33W
	R-302	68173	RESISTOR,CARBON FILM	1K J 0,33W
	R-303	68170	RESISTOR,CARBON FILM	3,3K J 0,33W
	R-304	53004	RESISTOR,CARBON FILM	680R J 0,25W
	R-305	52768	RESISTOR,CARBON FILM	470R J 0,25W
	R-306	324675	RESISTOR,METAL OXYDE	330R K 1,5W
	R-307	52769	RESISTOR,CARBON FILM	15K J 0,25W
	R-308	410144	RESISTOR,CARBON FILM	56K J 0,33W
	R-309	378846	RESISTOR,CARBON FILM	22K J 0,33W
	R-310	415308	RESISTOR,METAL FILM	2,7R J 0,5W

EARLY BIRD

POS.	DESCRIPTION	PART NO.
1.	CABINET	415055
2.	PICTURE TUBE NOKIA	413140
	VIDEOCOLOR	414745
	WF	414942
	THOMSON	415157
3.	CHASSIS	SEE TABLE 1
4.	REMOTE CONTROL	415088
5.	BACK COVER	415052
6.	BUTTON FOR MAIN SWITCH	415060
7.	SPRING FOR M. B. BUTTON	415064
8.	CONTROL UNIT BUTTONS	415061
9.	SCREW FOR P.T.	414585
10.	SCREW 2,9 x 16	11657
11.	SCREW 2,9 x 9,5	18149
12.	SCREW 3,5 x 9,5	26495
13.	SCREW 5 x 30	378244
14.	SPEAKER 8 OHM	411667
15.	EB-G4 PCB ASSY	414032
16.	VK-G4 PCB ASSY	SEE TABLE 1

R-820	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-821	68824	RESISTOR,CARBON FILM	18K J	0,25W
R-822	68173	RESISTOR,CARBON FILM	1K J	0,33W
R-823	68163	RESISTOR,CARBON FILM	560R J	0,25W
R-824	410146	RESISTOR,METAL FILM	470R J	0,33W
R-825	52777	RESISTOR,CARBON FILM	120K J	0,25W
R-826	68152	RESISTOR,CARBON FILM	100K J	0,25W
R-827	69833	RESISTOR,CARBON FILM	8,2K J	0,33W
R-828	52771	RESISTOR,CARBON FILM	6,8K J	0,33W
R-834	68173	RESISTOR,CARBON FILM	1K J	0,33W
R-835	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-836	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-837	410146	RESISTOR,CARBON FILM	470R J	0,33W
R-838	52770	RESISTOR,CARBON FILM	1,2K J	0,33W
R-839	68164	RESISTOR,CARBON FILM	390R J	0,25W
R-840	52770	RESISTOR,CARBON FILM	1,2K J	0,33W
R-901	412477	RESISTOR,CARBON FILM	3,3K J	0,33W
R-902	412477	RESISTOR,CARBON FILM	3,3K J	0,33W
R-903	68146	RESISTOR,CARBON FILM	100R J	0,33W
R-904	68146	RESISTOR,CARBON FILM	100R J	0,33W
R-905	410231	RESISTOR,CARBON FILM	15K J	0,33W
R-906	378849	RESISTOR,CARBON FILM	2,2K J	0,33W
R-907	52761	RESISTOR,CARBON FILM	820R J	0,25W
R-909	410147	RESISTOR,CARBON FILM	4,7K J	0,33W
R-910	415496	RESISTOR,METAL FILM	5,6K F	0,33W
R-911	415497	RESISTOR,METAL FILM	1,2K F	0,33W
R-912	415317	RESISTOR,METAL FILM	180K F	0,25W
R-913	316655	RESISTOR,METAL FILM	100R F	0,25W
R-914	313598	RESISTOR,METAL FILM	22K F	0,25W
R-915	415318	RESISTOR,METAL FILM	15K F	0,25W
R-916	313601	RESISTOR,CARBON FILM	10K J	0,25W
R-917	69831	RESISTOR,CARBON FILM	4,7K J	0,33W
R-918	378846	RESISTOR,CARBON FILM	22K J	0,33W
R-919	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-920	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-921	378846	RESISTOR,CARBON FILM	22K J	0,33W
R-922	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-923	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-924	378846	RESISTOR,CARBON FILM	22K J	0,33W
R-925	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-926	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-927	52771	RESISTOR,CARBON FILM	6,8K J	0,33W
R-928	378755	RESISTOR,METAL FILM	3,57K F	0,33W
R-929	68170	RESISTOR,CARBON FILM	3,3K J	0,33W
R-930	79542	RESISTOR,CARBON FILM	3,9K J	0,33W
R-931	68161	RESISTOR,CARBON FILM	22K J	0,25W
R-932	410199	RESISTOR,CARBON FILM	1,8K J	0,33W
R-933	52767	RESISTOR,CARBON FILM	12K J	0,25W
R-934	52767	RESISTOR,CARBON FILM	12K J	0,25W
R-935	68173	RESISTOR,CARBON FILM	1K J	0,33W
R-936	68173	RESISTOR,CARBON FILM	1K J	0,33W
R-937	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-938	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-939	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-940	338570	RESISTOR,CARBON FILM	1,8K J	0,33W
R-941	338570	RESISTOR,CARBON FILM	1,8K J	0,33W
R-942	52768	RESISTOR,CARBON FILM	470R J	0,25W
R-943	338570	RESISTOR,CARBON FILM	1,8K J	0,33W
R-944	410144	RESISTOR,CARBON FILM	56K J	0,33W
R-945	410144	RESISTOR,CARBON FILM	56K J	0,33W
R-949	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-950	68152	RESISTOR,CARBON FILM	100K J	0,25W
R-951	378835	RESISTOR,CARBON FILM	100K J	0,33W

R-311	413766	RESISTOR,METAL FILM	3,9R J	0,5W
R-312	314906	RESISTOR,METAL OXYDE	2,7R J	1,5W
R-501	410153	RESISTOR,CARBON FILM	10K J	0,33W
R-502	410153	RESISTOR,CARBON FILM	10K J	0,33W
R-503	68153	RESISTOR,CARBON FILM	10K J	0,33W (MONO TV)
R-504	414839	RESISTOR,CARBON FILM	120R J	0,25W
R-505	414839	RESISTOR,CARBON FILM	120R J	0,25W
R-506	413342	RESISTOR,CARBON FILM	270R J	0,75W (MONO TV)
R-507	68170	RESISTOR,CARBON FILM	3,3K J	O,33W (MONO TV)
R-508	410323	RESISTOR,CARBON FILM	56K J	0,33W (MONO TV)
R-509	53004	RESISTOR,CARBON FILM	680R J	O,33W (MONO TV)
R-510	410232	RESISTOR,CARBON FILM	270R J	0,33W (MONO TV)
R-511	68157	RESISTOR,CARBON FILM	39K J	O,33W (MONO TV)
R-512	45028	RESISTOR,CARBON FILM	27K J	0,33W (MONO TV)
R-513	410184	RESISTOR,CARBON FILM	12K J	O,33W (MONO TV)
R-551	68165	RESISTOR,CARBON FILM	220R J	0,33W (MONO TV)
R-552	410197	RESISTOR,CARBON FILM	1K J	O,33W (MONO TV)
R-553	314906	RESISTOR,METAL OXYDE	2,7R J	1,5W
R-554	410151	RESISTOR,CARBON FILM	2,7K J	0,33W (MONO TV)
R-555	413867	RESISTOR,METAL OXYDE	3,3R J	0,5W (MONO TV)
R-601	68544	RESISTOR,PTC	P.T. DEMAGNETIZATION	
R-604	413803	RESISTOR,VDR	250V	
R-651	414832	RESISTOR,WIRE.CEMENT	2K7 K	4W
R-652	414835	RESISTOR,CARBON FILM	1R J	0,33W
R-653	414835	RESISTOR,CARBON FILM	1R J	0,33W
R-654	411146	RESISTOR,PTC	P2462-J29 SIEMENS	
R-655	68146	RESISTOR,CARBON FILM	100R J	0,33W
R-656	378761	RESISTOR,WIRE.CEMENT	82R K	4W
R-657	68152	RESISTOR,CARBON FILM	100K J	0,25W
R-660	49768	RESISTOR,CARBON FILM	390K J	0,5 W
R-663	52767	RESISTOR,CARBON FILM	12K J	0,25W
R-664	415136	RESISTOR,FUSIBLE	100R J	0,5W
R-665	410145	RESISTOR,CARBON FILM	8,2K J	0,33W
R-666	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-667	378830	RESISTOR,CARBON FILM	1,2K J	0,33W
R-668	338577	RESISTOR,CARBON FILM	10M K	10 KV
R-669	412152	RESISTOR,WIRE.CEMENT	5,5R K	11W
R-681	413765	RESISTOR,CARBON FILM	15K J	1 W
R-682	411574	RESISTOR,FUSIBLE	0,2R K	0,4W
R-683	411572	RESISTOR,CARBON FILM	O,15R K	0.75W
R-685	366004	RESISTOR,METAL OXYDE	3R J	1,5W
R-686	68170	RESISTOR,CARBON FILM	3,3K J	0,33W
R-687	378761	RESISTOR,WIRE.CEMENT	82R K	4W
R-688	410197	RESISTOR,CARBON FILM	1K J	0,33W
R-801	68163	RESISTOR,CARBON FILM	560R J	0,25W
R-802	68163	RESISTOR,CARBON FILM	560R J	0,25W
R-803	68163	RESISTOR,CARBON FILM	560R J	0,25W
R-804	68163	RESISTOR,CARBON FILM	560R J	0,25W
R-805	337749	RESISTOR,CARBON FILM	75R J	0,33W
R-806	337749	RESISTOR,CARBON FILM	75R J	0,33W
R-807	337749	RESISTOR,CARBON FILM	75R J	0,33W
R-808	337749	RESISTOR,CARBON FILM	75R J	0,33W
R-809	68152	RESISTOR,CARBON FILM	100K J	0,25W
R-810	413760	RESISTOR,CARBON FILM	4R7 J	0,33W
R-811	68153	RESISTOR,CARBON FILM	10K J	0,33W
R-812	52767	RESISTOR,CARBON FILM	12K J	0,25W
R-813	52769	RESISTOR,CARBON FILM	15K J	0,25W
R-814	69878	RESISTOR,CARBON FILM	68K J	0,33W
R-815	410197	RESISTOR,CARBON FILM	1K J	0,33W
R-816	68165	RESISTOR,CARBON FILM	220R J	0,25W
R-817	68301	RESISTOR,CARBON FILM	56K J	0,25W
R-818	49731	RESISTOR,CARBON FILM	47K J	0,25W
R-819	68165	RESISTOR,CARBON FILM	220R J	0,25W

	C-307	314875	CAPACITOR,ELECTROLYTIC	470U	Z	40V
	C-308	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-309	413244	CAPACITOR,ELECTROLYTIC	2,2U	Z	40V
	C-310	413783	CAPACITOR,ELECTROLYTIC	1500U	Z	25V
	C-505	378957	CAPACITOR,ELECTROLYTIC	47U	Z	25V (MONO TV)
	C-506	378937	CAPACITOR,CERAMIC	10N	Z	63V (MONO TV)
	C-507	366027	CAPACITOR,ELECTROLYTIC	10U	M	25V (MONO TV)
	C-508	411391	CAPACITOR,METAL.POLYESTER	330N	K	63V (MONO TV)
	C-510	413770	CAPACITOR,CERAMIC	68P	J	63V (MONO TV)
	C-511	378958	CAPACITOR,CERAMIC	22N	S	40V (MONO TV)
	C-512	378937	CAPACITOR,CERAMIC	10N	S	63V (MONO TV)
	C-513	378958	CAPACITOR,CERAMIC	22N	S	40V (MONO TV)
	C-514	378937	CAPACITOR,CERAMIC	10N	Z	63V (MONO TV)
	C-515	411394	CAPACITOR,METAL.POLYESTER	330N	K	63V (MONO TV)
	C-516	378937	CAPACITOR,CERAMIC	10N	S	63V (MONO TV)
	C-517	411117	CAPACITOR,CERAMIC	12P	D	63V (MONO TV)
	C-518	366027	CAPACITOR,ELECTROLYTIC	10U	M	25V (MONO TV)
	C-551	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V (MONO TV)
	C-552	68468	CAPACITOR,CERAMIC	100N	K	63V (MONO TV)
	C-553	68468	CAPACITOR,CERAMIC	100N	K	63V (MONO TV)
	C-554	411390	CAPACITOR,CERAMIC	120P	J	63V (MONO TV)
	C-555	411374	CAPACITOR,ELECTROLYTIC	22U	M	16V (MONO TV)
	C-556	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V (MONO TV)
	C-557	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V (MONO TV)
	C-558	39417	CAPACITOR,ELECTROLYTIC	220U	M	16V (MONO TV)
	C-559	414799	CAPACITOR,ELECTROLYTIC	1000U	M	25V (MONO TV)
!	C-603	413781	CAPACITOR,POLYPROPILENE	470N	K	250V
!	C-604	413781	CAPACITOR,POLYPROPILENE	470N	K	250V
	C-651	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
	C-652	329119	CAPACITOR,POLYPROPILENE	1500P	J	1,5KV
	C-653	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V
	C-654	312892	CAPACITOR,ELECTROLYTIC	220U	Z	40V
	C-656	378956	CAPACITOR,CERAMIC	4700P	K	100V
	C-657	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
	C-658	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
	C-659	378940	CAPACITOR,ELECTROLYTIC	1U	Z	100V
	C-660	411393	CAPACITOR,METAL.POLYESTER	8200P	K	100V
	C-661	316786	CAPACITOR,CERAMIC	2200P	M	400VAC
	C-662	413780	CAPACITOR,ELECTROLYTIC	150U	Z	400V
!	C-663	412516	CAPACITOR,CERAMIC	3300P	M	400VAC 2E4
	C-664	68562	CAPACITOR,CERAMIC	1500P	S	1KV 2E4
	C-665	68562	CAPACITOR,CERAMIC	1500P	S	1KV 2E4
	C-666	68562	CAPACITOR,CERAMIC	1500P	S	1KV 2E4
	C-667	68562	CAPACITOR,CERAMIC	1500P	S	1KV 2E4
	C-681	414794	CAPACITOR,ELECTROLYTIC	47U	Z	160V
	C-683	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
	C-684	314875	CAPACITOR,ELECTROLYTIC	470U	Z	40V
	C-685	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
	C-686	312890	CAPACITOR,ELECTROLYTIC	470U	Z	25V
	C-688	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-689	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
	C-690	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-691	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-692	415702	CAPACITOR,ELECTROLYTIC	470U	M	16V
	C-693	378982	CAPACITOR,CERAMIC	4700P	S	63V 2F4
	C-694	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-695	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V
	C-696	411499	CAPACITOR,CERAMIC	470P	K	63V 2B4
	C-698	378939	CAPACITOR,ELECTROLYTIC	10U	M	63V
	C-697	69814	CAPACITOR,ELECTROLYTIC	100U	Z	40V
	C-804	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V
	C-805	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
	C-806	411391	CAPACITOR,METAL.POLYESTER	330N	K	63V

	R-952	378835	RESISTOR,CARBON FILM	100K	J	0,33W
	R-953	378835	RESISTOR,CARBON FILM	100K	J	0,33W
	R-954	68173	RESISTOR,CARBON FILM	1K	J	0,33W
	R-957	378846	RESISTOR,CARBON FILM	22K	J	0,33W
	R-958	68153	RESISTOR,CARBON FILM	10K	J	0,33W
	R-1001	68146	RESISTOR,CARBON FILM	100R	J	0,33W
!	R-1002	414955	RESISTOR,FUSIBLE	10R	K	0,4W
	R-1003	414276	RESISTOR,METAL OXYDE	390R	J	1W
	R-1004	39041	RESISTOR,CARBON FILM	1,5K	J	0,33W
	R-1006	413761	RESISTOR,METAL FILM	100R	J	0,5W
	R-1007	314906	RESISTOR,METAL OXYDE	2,7R	J	1,5W
	R-1008	413763	RESISTOR,CARBON FILM	470K	J	1 KV
!	R-1009	372123	RESISTOR,FUSIBLE	2,2R	J	0,33W
	R-1010	47208	RESISTOR,WIRE.CEMENT	5,6K	J	4W
	R-1011	45026	RESISTOR,CARBON FILM	2,2K	J	0,25W
	R-1012	378846	RESISTOR,CARBON FILM	22K	J	0,33W
	R-1013	68173	RESISTOR,CARBON FILM	1K	J	0,33W

SEMIVARIABLE RESISTORS

P-101	51900	RESISTOR,SEMIVARIABLE	25K	0,05W
P-102	45387	RESISTOR,SEMIVARIABLE	10K	0,05W
P-103	324719	RESISTOR,SEMIVARIABLE	47K	0,05W
P-301	51900	RESISTOR,SEMIVARIABLE	25K	0,05W
P-302	47169	RESISTOR,SEMIVARIABLE	100R	0,05W
P-303	304325	RESISTOR,SEMIVARIABLE	5K	0,05W
P-651	45387	RESISTOR,SEMIVARIABLE	10K	0,05W
P-801	317824	RESISTOR,SEMIVARIABLE	1K	0,05W

CAPACITORS

C-101	378950	CAPACITOR,METAL.POLYESTER	470N	K	63V	
C-102	378950	CAPACITOR,METAL.POLYESTER	470N	K	63V	
C-104	366027	CAPACITOR,ELECTROLYTIC	10U	T	25V	
C-105	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V	
C-106	413769	CAPACITOR,CERAMIC	2200P	Z	63V	2E4
C-107	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V	
C-108	378960	CAPACITOR,CERAMIC	1000P	K	63V	2B4
C-109	378937	CAPACITOR,CERAMIC	10N	Z	63V	2F4
C-110	378937	CAPACITOR,CERAMIC	10N	Z	63V	2F4
C-111	413768	CAPACITOR,ELECTROLYTIC	68U	M	16V	
C-112	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V	
C-113	378958	CAPACITOR,CERAMIC	2200P	S	40V	2F4
C-114	413040	CAPACITOR,METAL.POLYESTER	68N	J	63V	
C-115	68468	CAPACITOR,CERAMIC FILM	100N	S	50V	2F3
C-117	411389	CAPACITOR,CERAMIC	150P	J	63V	N150
C-118	68468	CAPACITOR,CERAMIC FILM	100N	S	50V	2F3
C-119	413772	CAPACITOR,POLYESTER	2700P	J	63V	
C-120	413773	CAPACITOR,METAL.POLYESTER	47N	M	63V	
C-121	413244	CAPACITOR,ELECTROLYTIC	2,2U	Z	40V	
C-122	68468	CAPACITOR,CERAMIC FILM	100N	S	50V	2F3
C-123	68468	CAPACITOR,CERAMIC FILM	100N	S	50V	2F3
C-124	411374	CAPACITOR,ELECTROLYTIC	22U	T	16V	
C-125	378940	CAPACITOR,ELECTROLYTIC	1U	Z	100V	
C-126	378940	CAPACITOR,ELECTROLYTIC	1U	Z	100V	
C-127	378940	CAPACITOR,ELECTROLYTIC	1U	Z	100V	
C-128	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V	
C-129	378958	CAPACITOR,CERAMIC	22N	S	40V	2F4
C-301	378982	CAPACITOR,CERAMIC	4700P	S	63V	2F4
C-302	378982	CAPACITOR,CERAMIC	4700P	S	63V	2F4
C-303	411499	CAPACITOR,CERAMIC	470P	K	63V	2B4
C-304	69814	CAPACITOR,ELECTROLYTIC	100U	Z	40V	
C-306	411064	CAPACITOR,ELECTROLYTIC	4,7U	Z	63V	

IC-651	378751	INTEGRATED CIRCUIT	TDA4601	
IC-801	412623	INTEGRATED CIRCUIT	TDA3566	PHILIPS
IC-901	413310	INTEGRATED CIRCUIT	CTV350S	PHILIPS
IC-901	413218	INTEGRATED CIRCUIT	PCA84C644	PHILIPS(MONO TV)
IC-902	413219	INTEGRATED CIRCUIT	PCF8582EP	PHILIPS
IC-903	413193	INTEGRATED CIRCUIT	74LS241	
T-101	411262	TRANSISTOR	BC547B	
T-102	411262	TRANSISTOR	BC547B	
T-103	411262	TRANSISTOR	BC547B	
T-651	378810	TRANSISTOR	BU508A	
T-681	338566	TRANSISTOR	BD679	
T-901	411262	TRANSISTOR	BC547B	
T-902	411262	TRANSISTOR	BC547B	
T-903	413217	TRANSISTOR	BC550C	
T-904	411262	TRANSISTOR	BC547B	
T-905	411261	TRANSISTOR	BC212B	
T-906	411262	TRANSISTOR	BC547B	
T-907	411261	TRANSISTOR	BC212B	
T-908	411261	TRANSISTOR	BC212B	
T-909	411262	TRANSISTOR	BC547B	
T-910	411262	TRANSISTOR	BC547B	
T-914	411262	TRANSISTOR	BC547B	
T-1001	338580	TRANSISTOR	BC639	
T-1002	413787	TRANSISTOR	BU508D	
D-301	300874	DIODE	1N4003	
D-501	314930	DIODE,ZENER	5,1 V	0,3 W (MONO TV)
D-503	54666	DIODE	1N4148	(MONO TV)
D-651	47231	DIODE	BA157	
D-651	47231	DIODE	BA157	
D-652	47231	DIODE	BA157	
D-654	39079	DIODE	BA159	
D-656	47231	DIODE	BA157	
D-657	412447	DIODE	BY255	
D-658	412447	DIODE	BY255	
D-659	412447	DIODE	BY255	
D-660	412447	DIODE	BY255	
D-681	316801	DIODE	BY299	
D-682	47231	DIODE	BA157	
D-683	410680	DIODE	BY398A	
D-685	68266	DIODE,ZENER	13 V	0,5 W
D-686	413789	DIODE,ZENER	5,1 V	1,3 W
D-687	313551	DIODE	1N4001	
D-801	51666	DIODE	1N4148	
D-802	51666	DIODE	1N4148	
D-803	51666	DIODE	1N4148	
D-804	51666	DIODE	1N4148	
D-805	51666	DIODE	1N4148	
D-806	411353	DIODE	1N4148	
D-807	411353	DIODE	1N4148	
D-808	411353	DIODE	1N4148	
D-901	411353	DIODE	1N4148	
D-902	51666	DIODE	1N4148	
D-904	51666	DIODE	1N4148	
D-905	51666	DIODE	1N4148	
D-908	51666	DIODE	1N4148	
D-909	51666	DIODE	1N4148	
D-910	51666	DIODE	1N4148	
D-911	51666	DIODE	1N4148	
D-914	313561	DIODE,ZENER	4,7 V	0,5 W
D-915	313561	DIODE,ZENER	4,7 V	0,5 W
D-918	51666	DIODE	1N4148	

C-807	411064	CAPACITOR,ELECTROLYTIC	4,7U	Z	63V
C-808	378937	CAPACITOR,CERAMIC	10N	Z	63V 2F4
C-809	411390	CAPACITOR,CERAMIC	120P	J	63V NP0
C-810	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
C-811	366027	CAPACITOR,ELECTROLYTIC	10U	T	25V
C-812	413775	CAPACITOR,ELECTROLYTIC	33U	Z	16V
C-813	378958	CAPACITOR,CERAMIC	22N	S	40V 2F4
C-815	378950	CAPACITOR,METAL.POLYESTER	470N	K	63V
C-816	366027	CAPACITOR,ELECTROLYTIC	10U	T	25V
C-817	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-818	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-819	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-820	378940	CAPACITOR,ELECTROLYTIC	1U	Z	100V
C-821	378950	CAPACITOR,METAL.POLYESTER	470N	K	63V
C-822	378950	CAPACITOR,METAL.POLYESTER	470N	K	63V
C-823	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-824	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-825	413244	CAPACITOR,ELECTROLYTIC	2,2U	Z	40V
C-826	411117	CAPACITOR,CERAMIC	12P	D	63V NP0
C-827	378937	CAPACITOR,CERAMIC	10N	Z	63V 2F4
C-828	378937	CAPACITOR,CERAMIC	10N	Z	63V 2F4
C-901	412474	CAPACITOR,ELECTROLYTIC	100U	Z	10V
C-902	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-905	366027	CAPACITOR,ELECTROLYTIC	10U	T	25V
C-906	411753	CAPACITOR,CERAMIC	15P	J	63V NP0
C-907	411753	CAPACITOR,CERAMIC	15P	J	63V NP0
C-908	411064	CAPACITOR,ELECTROLYTIC	4,7U	Z	63V
C-909	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
C-911	378949	CAPACITOR,METAL.POLYESTER	100N	K	63V
C-912	378949	CAPACITOR,METAL.POLYESTER	100N	K	63V
C-913	378936	CAPACITOR,ELECTROLYTIC	100U	Z	16V
C-914	413213	CAPACITOR,METAL.POLYESTER	2200P	J	63V
C-915	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-916	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-917	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-918	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-919	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
C-920	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
C-923	378953	CAPACITOR,CERAMIC	100P	J	63V NP0
C-924	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-927	413769	CAPACITOR,CERAMIC	2200P	S	63V 2E4
C-1001	68468	CAPACITOR,CERAMIC FILM	100N	S	50V 2F3
C-1002	316767	CAPACITOR,CERAMIC	22P	J	63V NP0
C-1003	410681	CAPACITOR,METAL.POLYESTER	220N	K	63V
C-1004	378958	CAPACITOR,CERAMIC	220N	S	40V 2F4
C-1005	413776	CAPACITOR,METAL.POLYESTER	100N	M	250V
C-1006	IT DEPENDS ON PICTURE TUBE TYPE (SEE TABLE 1)				
C-1008	413782	CAPACITOR,METAL.POLYPROPILE	680N	M	250V
C-1009	378958	CAPACITOR,CERAMIC	22N	S	40V 2F4
C-1010	413778	CAPACITOR,METAL.POLYPROPILE	330N	K	250V
C-1011	45413	CAPACITOR,ELECTROLYTIC	1U	M	350V
C-1012	411064	CAPACITOR,ELECTROLYTIC	4,7U	Z	63V
C-1013	378845	CAPACITOR,CERAMIC	220P	S	1KV 2E4
C-1014	413773	CAPACITOR,METAL.POLYESTER	47N	M	63V
C-1015	45413	CAPACITOR,ELECTROLYTIC	1U	M	350V

SEMICONDUCTORS

D-684	55576	INTEGRATED CIRCUIT	ZTK33B
IC-101	413785	INTEGRATED CIRCUIT	TDA4504B/N1 PHILIPS
IC-301	413788	INTEGRATED CIRCUIT	TDA3653/N1 PHILIPS
IC-501	413786	INTEGRATED CIRCUIT	TDA3827/V2 PHILIPS(MONO TV)
IC-551	314752	INTEGRATED CIRCUIT	TDA2611A (MONO TV)

R-247	415031	RESISTOR,CARBON FILM	33K	J	0,5W
R-248	37784	RESISTOR,CARBON FILM	2,7K	J	0,5W
R-249	IT DEPENDS ON PICTURE TUBE TYPE (SEE TABLE 1)				
R-250	49667	RESISTOR,CARBON FILM	33K	J	0,5W
P-207	317824	RESISTOR,SEMIVARIABLE	1K		0,05W
P-223	317824	RESISTOR,SEMIVARIABLE	1K		0,05W
C-227	412677	CAPACITOR,ELECTROLYTIC	2200U	Z	6,3V
C-202	415032	CAPACITOR,ELECTROLYTIC	2,2U	Z	250V
C-228	341246	CAPACITOR,CERAMIC	22N	S	1KV 2E4
C-207	413770	CAPACITOR,CERAMIC	68P	J	63V N150
C-224	378973	CAPACITOR,CERAMIC	33P	J	63V NP0
C-216	378974	CAPACITOR,CERAMIC	56P	J	63V NP0
C-229	49748	CAPACITOR,CERAMIC	100N	M	250V
C-214	69813	CAPACITOR,CERAMIC	100N	M	250V
T-202	412800	TRANSISTOR	BF423		
T-203	316120	TRANSISTOR	BF869		
T-207	412800	TRANSISTOR	BF423		
T-208	316120	TRANSISTOR	BF869		
T-213	412800	TRANSISTOR	BF423		
T-214	316120	TRANSISTOR	BF869		
D-201	411353	DIODE	1N4148		
D-202	411353	DIODE	1N4148		
D-203	411353	DIODE	1N4148		
D-204	325626	DIODE,ZENER	3,6 V		0,5 W
D-206	300874	DIODE	1N4003		
	411139	PICTURE TUBE SOCKET			
	413972	PC BOARD,VK-G4			

ST-G4 (5,5) STEREO DECODER BOARD ; SE43010 PART NO.415116
ST-G4 (5,5/6,5) STEREO DECODER BOARD ; SE43020 PART NO.415300

R-506	411227	RESISTOR,METAL OXYDE	82R	J	1,5W
R-507	413976	RESISTOR,CARBON FILM,SMD	470R	J	0,25W
R-508	413976	RESISTOR,CARBON FILM,SMD	470R	J	0,25W
R-509	413924	RESISTOR,CARBON FILM,SMD	100R	J	0,25W
R-510	413976	RESISTOR,CARBON FILM,SMD	470R	J	0,25W
R-511	413995	RESISTOR,CARBON FILM,SMD	680R	J	0,25W
R-512	413994	RESISTOR,CARBON FILM,SMD	560R	J	0,25W
R-513	414013	RESISTOR,CARBON FILM,SMD	390R	J	0,25W
R-514	413925	RESISTOR,CARBON FILM,SMD	1K	J	0,25W
R-515	413931	RESISTOR,CARBON FILM,SMD	4,7K	J	0,25W
R-516	413931	RESISTOR,CARBON FILM,SMD	4,7K	J	0,25W
R-517	413922	RESISTOR,CARBON FILM,SMD	10K	J	0,25W
R-518	413996	RESISTOR,CARBON FILM,SMD	2,7K	J	0,25W
R-519	415118	RESISTOR,CARBON FILM,SMD	820R	J	0,25W
R-520	413996	RESISTOR,CARBON FILM,SMD	2,7K	J	0,25W
R-521	415118	RESISTOR,CARBON FILM,SMD	820R	J	0,25W
R-522	413992	RESISTOR,CARBON FILM,SMD	1,2K	J	0,25W
R-523	415118	RESISTOR,CARBON FILM,SMD	820R	J	0,25W
R-524	413992	RESISTOR,CARBON FILM,SMD	1,2K	J	0,25W
R-525	415118	RESISTOR,CARBON FILM,SMD	820R	J	0,25W
R-526	413931	RESISTOR,CARBON FILM,SMD	4,7K	J	0,25W
R-527	413931	RESISTOR,CARBON FILM,SMD	4,7K	J	0,25W
R-528	45027	RESISTOR,CARBON FILM	33K	J	0,25W
R-529	45027	RESISTOR,CARBON FILM	33K	J	0,25W
R-530	411126	RESISTOR,METAL OXYDE	100R	J	1,5W

	D-920	51666	DIODE	1N4148
	D-1001	39079	DIODE	BA159
	D-1002	47231	DIODE	BA157
	D-1003	39079	DIODE	BA159
	D-1004	51666	DIODE	1N4148
!	TR-651	413800	MAINS TRANSFORMER	
	TR-1001	413798	DRIVER TRANSFORMER	
!	TR-1002	413799	DIODE SPLIT TRANSFORMER	
!	L-1003		IT DEPENDS ON PICTURE TUBE TYPE (SEE TABLE 1)	
	L-1002	339318	COIL,BRIDGE	BV-05177
	F.D-681	338579	FERITE BEAD	5/2/6
	F.D-682	338579	FERITE BEAD	5/2/6
	DU-101	330438	COIL-HF	1 UH
	DU-101	69902	FERITE BEAD	6/1,8/7,5
	DU-104	316643	COIL-HF	4,7 UH
	DU-501	413757	COIL-HF	2,2 UH (MONO TV)
	DU-601	413337	MAINS COIL	2 X 33 MH
	DU-651	338579	FERITE BEAD	5/2/6
	DU-652	316643	COIL-HF	4,7 UH
	DU-802	411395	COIL-HF	10 UH
	DU-901	410160	COIL-HF	15 UH
	DU-902	411326	COIL-HF	33 UH
	L-103	413796	REFERENCE COIL	GBTKXCS-19735AYC TOKO
	L-801	411395	COIL-HF	10 UH
	L-803	413794	FILTER	BKANS-4705 BKL TOKO
	F-101	333667	SAW FILTER	OFW G 3203 SIEMENS
	F-101A	411801	SAW FILTER	OFW G 1956 SIEMENS(MONO TV)
	F-102	413802	CERAMIC FILTER	TPS 5,5 MB MURATA
	F-504	52819	CERAMIC FILTER	SFE 5,5 MC MURATA (MONO TV)
	F-505	413797	CERAMIC FILTER	CDA 5,5ME26 (MONO TV)
	F-801	413795	CERAMIC FILTER	TPS 4,43 MHZ MURATA
	LZ-802	314898	CHROMINANCE DELAY LINE	DL701 PHILIPS
	LZ-801	346527	LUMINANCE DELAY LINE	DL470 PHILIPS
	Q-801	68289	CRYSTAL	8,8 MHZ
	TU-101	413249	TUNER	F2078/04 SIEL
!	VA-601	47056	SAFETY-FUSE	2A/250V
		415117	PC BOARD,G4	

' VK-G4 CPT BOARD ; PART NO.(SEE TABLE 1)

R-203	413822	RESISTOR,METAL OXYDE	8,2K	J	2W
R-206	410151	RESISTOR,CARBON FILM	2,7K	J	0,33W
R-208	410151	RESISTOR,CARBON FILM	2,7K	J	0,33W
R-213	412675	RESISTOR,METAL OXYDE	68K	J	1W
R-214	415031	RESISTOR,CARBON FILM	33K	J	0,5W
R-215	37784	RESISTOR,CARBON FILM	2,7K	J	0,5W
R-218	413822	RESISTOR,METAL OXYDE	8,2K	J	2W
R-219	316658	RESISTOR,CARBON FILM	2,2M	J	0,25W
R-222	410151	RESISTOR,CARBON FILM	2,7K	J	0,33W
R-224	410151	RESISTOR,CARBON FILM	2,7K	J	0,33W
R-228	412675	RESISTOR,METAL OXYDE	68K	J	1W
R-231	415031	RESISTOR,CARBON FILM	33K	J	0,5W
R-232	37784	RESISTOR,CARBON FILM	2,7K	J	0,5W
R-236	413822	RESISTOR,METAL OXYDE	8,2K	J	2W
R-238	412148	RESISTOR,CARBON FILM	3,3K	J	0,33W
R-242	410151	RESISTOR,CARBON FILM	2,7K	J	0,33W
R-246	412675	RESISTOR,METAL OXYDE	68K	J	1W

C-542	414038	CAPACITOR, POLYESTER	1000P J	63V
L-541	414989	FILTER	YBKXNS-K7189 ME	
L-542	414989	FILTER	YBKXNS-K7189 ME	
	415081	PC BOARD, DT-G4		

TTX-G4 TELETEXT BOARD ; SE44050 PART NO.415735

R-401	410230	RESISTOR, CARBON FILM	27K J	0,33W	
R-402	410197	RESISTOR, CARBON FILM	1K J	0,33W	
R-403	68173	RESISTOR, CARBON FILM	1K J	0,33W	
R-403	68173	RESISTOR, CARBON FILM	1K J	0,33W	
R-404	410147	RESISTOR, CARBON FILM	4,7K J	0,33W	
R-405	410147	RESISTOR, CARBON FILM	4,7K J	0,33W	
R-406	410147	RESISTOR, CARBON FILM	4,7K J	0,33W	
R-407	410147	RESISTOR, CARBON FILM	4,7K J	0,33W	
R-410	68153	RESISTOR, CARBON FILM	10K J	0,33W	
R-411	69831	RESISTOR, CARBON FILM	4,7K J	0,33W	
R-412	410197	RESISTOR, CARBON FILM	1K J	0,33W	
R-414	68165	RESISTOR, CARBON FILM	220R J	0,25W	
R-415	68165	RESISTOR, CARBON FILM	220R J	0,25W	
R-416	68161	RESISTOR, CARBON FILM	22K J	0,25W	
C-401	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
C-402	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
C-403	316767	CAPACITOR, CERAMIC	22P J	63V	NP0
C-404	316767	CAPACITOR, CERAMIC	22P J	63V	NP0
C-405	316767	CAPACITOR, CERAMIC	22P J	63V	NP0
C-407	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
C-408	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
C-409	366027	CAPACITOR, ELECTROLYTIC	10U T	25V	
C-410	412474	CAPACITOR, ELECTROLYTIC	10U Z	10V	
C-411	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
C-412	378949	CAPACITOR, METAL.POLYESTER	100N K	63V	
IC-401	413220	INTEGRATED CIRCUIT	SAA5244	PHILIPS	
T-401	338580	TRANSISTOR	BC639		
T-402	411262	TRANSISTOR	BC547B		
Q-401	413189	CRYSTAL	27 MHZ		
DU-401	413222	COIL-HF	3,3 UH		
	413790	PC BOARD, TTX			

TTX26-G4 TELETEXT BOARD ; SE44020 PART NO.413353

R-401	413352	RESISTOR, CARBON FILM, SMD	1K J	0,25W
R-402	413352	RESISTOR, CARBON FILM, SMD	1K J	0,25W
R-403	413352	RESISTOR, CARBON FILM, SMD	1K J	0,25W
R-404	415246	RESISTOR, CARBON FILM, SMD	27K J	0,25W
R-405	413931	RESISTOR, CARBON FILM, SMD	4,7K J	0,25W
R-406	413931	RESISTOR, CARBON FILM, SMD	4,7K J	0,25W
R-407	413931	RESISTOR, CARBON FILM, SMD	4,7K J	0,25W
R-408	413352	RESISTOR, CARBON FILM, SMD	1K J	0,25W
R-409	413931	RESISTOR, CARBON FILM, SMD	4,7K J	0,25W
R-410	413931	RESISTOR, CARBON FILM, SMD	4,7K J	0,25W
R-411	413352	RESISTOR, CARBON FILM, SMD	1K J	0,25W
R-414	413930	RESISTOR, CARBON FILM, SMD	100K J	0,25W
J-406	413552	RESISTOR, ZEROOHM, SMD		
J-408	413552	RESISTOR, ZEROOHM, SMD		
J-415	413552	RESISTOR, ZEROOHM, SMD		

P-501	45387	RESISTOR,SEMIVARIABLE	10K	0,05W
C-501	412473	CAPACITOR,ELECTROLYTIC	22U Z	10V
C-502	413936	CAPACITOR,CERAMIC,SMD	10N K	50V 2C1
C-503	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-504	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-506	411064	CAPACITOR,ELECTROLYTIC	4,7U Z	63V
C-507	378954	CAPACITOR,POLYESTER	1500P J	63V
C-508	378954	CAPACITOR,POLYESTER	1500P J	63V
C-509	411394	CAPACITOR,STYROFLEX	1200P J	63V
C-512	413936	CAPACITOR,CERAMIC,SMD	10N K	50V 2C1
C-513	413936	CAPACITOR,CERAMIC,SMD	10N K	50V 2C1
C-514	414003	CAPACITOR,CERAMIC,SMD	56P K	50V NP0
C-515	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-516	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-517	413945	CAPACITOR,CERAMIC,SMD	220N M	50V 2F3
C-518	413937	CAPACITOR,CERAMIC,SMD	100N M	50V 2F3
C-519	414007	CAPACITOR,CERAMIC,SMD	470N M	50V 2F3
C-520	414007	CAPACITOR,CERAMIC,SMD	470N M	50V 2F3
C-521	414007	CAPACITOR,CERAMIC,SMD	470N M	50V 2F3
C-522	414007	CAPACITOR,CERAMIC,SMD	470N M	50V 2F3
C-523	413938	CAPACITOR,CERAMIC,SMD	15N K	50V 2C1
C-524	413938	CAPACITOR,CERAMIC,SMD	15N K	50V 2C1
C-525	415119	CAPACITOR,CERAMIC,SMD	33N K	50V 2C1
C-526	414009	CAPACITOR,CERAMIC,SMD	5600P K	50V NP0
C-527	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-528	378936	CAPACITOR,ELECTROLYTIC	100U Z	16V
C-529	413937	CAPACITOR,CERAMIC,SMD	100N M	50V 2F3
C-530	415119	CAPACITOR,CERAMIC,SMD	33N K	50V 2C1
C-531	414009	CAPACITOR,CERAMIC,SMD	5600P K	50V NP0
C-532	413244	CAPACITOR,ELECTROLYTIC	2,2U Z	40V
C-533	413944	CAPACITOR,CERAMIC,SMD	1000P K	50V 2C1
C-534	413944	CAPACITOR,CERAMIC,SMD	1000P K	50V 2C1
C-535	413937	CAPACITOR,CERAMIC,SMD	100N M	50V 2F3
C-536	414799	CAPACITOR,ELECTROLYTIC	100U T	25V
IC-501	414545	INTEGRATED CIRCUIT	TDA3857	PHILIPS
IC-502	415121	INTEGRATED CIRCUIT	TDA8417	PHILIPS
IC-503	414558	INTEGRATED CIRCUIT	TDA8425	PHILIPS
IC-504	415122	INTEGRATED CIRCUIT	TDA7057Q	PHILIPS
D-501	39093	DIODE,ZENER	5,6 V	0,5 W
D-504	68265	DIODE,ZENER	12V	0,5 W
DU-501	316644	COIL,HF	10 UH	
Q-501	414547	CERAMIC FILTER	SFT 5,74 MHZ	MURATA
Q-502	414548	CERAMIC FILTER	SFT 5,5 MHZ	MURATA
Q-503	415120	CERAMIC FILTER	SFT 6,5 MHZ	MURATA
Q-504	414559	CRYSTAL	10 MHZ	
L-501	316820	COIL	BV-05076	
L-502	316820	COIL	BV-05076	
L-503	316820	COIL	BV-05076	
L-504	316639	REFERENCE COIL	BV-05068	
	415248	PC BOARD,ST-G4		

DT-G4 DUBLE TONE BOARD (6,5MHZ) ; SE43030 PART NO.414986

R-541	53004	RESISTOR,CARBON FILM	680R J	0,33W
R-543	53004	RESISTOR,CARBON FILM	680R J	0,33W
C-541	411394	CAPACITOR,POLYESTER	1200P J	63V

C-707	378940	CAPACITOR,ELECTROLYTIC	1U Z	100V
C-708	378939	CAPACITOR,ELECTROLYTIC	10U Z	100V
C-709	60552	CAPACITOR,CERAMIC VARIABLE	4P5-20P	50V
C-710	378960	CAPACITOR,ELECTROLYTIC	1N K	63V
C-711	378960	CAPACITOR,ELECTROLYTIC	1N K	63V
C-712	378960	CAPACITOR,ELECTROLYTIC	1N K	63V
C-713	378960	CAPACITOR,CERAMIC	22N S	40V
C-714	378939	CAPACITOR,ELECTROLYTIC	10U Z	100V
C-715	378949	CAPACITOR,CERAMIC FILM	100N J	63V
C-716	378949	CAPACITOR,CERAMIC FILM	100N J	63V
C-717	378973	CAPACITOR,CERAMIC	33P J	63V
C-718	378960	CAPACITOR,ELECTROLYTIC	1N K	63V
C-719	414881	CAPACITOR,POLYESTER	150P J	63V
C-720	378940	CAPACITOR,ELECTROLYTIC	1U Z	100V
IC-701	414883	INTEGRATED CIRCUIT	TDA3592/N5	
D-701	412464	DIODE	BAT85	
L-701	414882	FILTER	BMKANS-K5566 BKN	
L-702	410160	COIL-HF	15 UH	
L-703	413794	FILTER	BKANS-K4711 BKN	
L-704	411395	COIL-HF	10 UH	
L-705	413793	FILTER	MKANS-K4711 BKN	
LZ-701	314898	CHROMINANCE DELAY LINE	DL701 PHILIPS	
LZ-702	346527	LUMINANCE DELAY LINE	DL470 PHILIPS	
Q-701	319045	CRYSTAL	4,4 MHZ	
	414879	PC BOARD,SECAM G4		

TG-G4 IR PREAMPLIFIER BOARD ; SE45050 PART NO.415239 (MODEL DIADEM)

52778	RESISTOR,CARBON FILM	47R J	0,25W
68174	RESISTOR,CARBON FILM	39R J	0,33W
68153	RESISTOR,CARBON FILM	10K J	0,33W
413591	RESISTOR,CARBON FILM	240K J	0,33W
378817	CAPACITOR,ELECTROLYTIC	1U Z	100V
378939	CAPACITOR,ELECTROLYTIC	10U Z	63V
378983	CAPACITOR,ELECTROLYTIC	220U S	10V
413824	CAPACITOR,CERAMIC	330P J	63V
317845	LED-DIODE	TLHR4601	
316011	PHOTO-DIODE	BPW41	
414034	INTEGRATED CIRCUIT	TA8141S	
415243	LEITERPLATTE,TG-G4		

TC-G4 IR PREAMPLIFIER BOARD ; SE45070 PART NO.415459 (MODEL NIMBUS)

52778	RESISTOR,CARBON FILM	47R J	0,25W
68174	RESISTOR,CARBON FILM	39R J	0,33W
68153	RESISTOR,CARBON FILM	10K J	0,33W
413591	RESISTOR,CARBON FILM	240K J	0,33W
378817	CAPACITOR,ELECTROLYTIC	1U Z	100V
378939	CAPACITOR,ELECTROLYTIC	10U Z	63V
378983	CAPACITOR,ELECTROLYTIC	220U S	10V
413824	CAPACITOR,CERAMIC	330P J	63V
317845	LED-DIODE	TLHR4601	
316011	PHOTO-DIODE	BPW41	
414034	INTEGRATED CIRCUIT	TA8141S	
414828	PC BOARD,TC-G4		

J-419	413552	RESISTOR,ZEROOHM,SMD	
J-420	413552	RESISTOR,ZEROOHM,SMD	
J-421	413552	RESISTOR,ZEROOHM,SMD	
J-427	413552	RESISTOR,ZEROOHM,SMD	
J-429	413552	RESISTOR,ZEROOHM,SMD	
J-430	413552	RESISTOR,ZEROOHM,SMD	
C-401	378936	CAPACITOR,ELECTROLYTIC	100U M 16V
C-402	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-403	413941	CAPACITOR,CERAMIC,SMD	22P K 50V
C-404	378945	CAPACITOR,ELECTROLYTIC	47U M 40V
C-405	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-406	413941	CAPACITOR,CERAMIC,SMD	22P K 50V
C-407	413941	CAPACITOR,CERAMIC,SMD	22P K 50V
C-408	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-409	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-410	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-411	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-412	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-413	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-414	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-418	413937	CAPACITOR,CERAMIC,SMD	100N M 50V
C-419	378894	CAPACITOR,ELECTROLYTIC	1U M 100V
C-420	378938	CAPACITOR,ELECTROLYTIC	22U M 40V
IC-401	413188	INTEGRATED CIRCUIT	SAA5246 P/H PHILIPS
IC-402	349073	INTEGRATED CIRCUIT	TC5565APL TOSHIBA
IC-403	411622	INTEGRATED CIRCUIT	PCF84C81P/079 PHILIPS
IC-404	413519	INTEGRATED CIRCUIT	PCF8582EP PHILIPS
T-401	338580	TRANSISTOR	BC639
D-401	413947	DIODE,SMD	LL4148
Q-401	413189	CRYSTAL	27 MHz
Q-403	411619	CRYSTAL	9,8304 MHz
DU-401	413222	COIL-HF	3,3 UH
	413354	PC BOARD,TTX26-G4	

SECAM-G4 SECAM BOARD ; SE42010 PART NO.414885

R-701	45016	RESISTOR,CARBON FILM	2,2K J 0,25W
R-702	53004	RESISTOR,CARBON FILM	680R J 0,25W
R-703	68164	RESISTOR,CARBON FILM	390R J 0,25W
R-704	68173	RESISTOR,CARBON FILM	1K J 0,33W
R-705	68173	RESISTOR,CARBON FILM	1K J 0,33W
R-706	68173	RESISTOR,CARBON FILM	1K J 0,33W
R-707	49731	RESISTOR,CARBON FILM	47K J 0,25W
R-708	414955	RESISTOR,CARBON FILM	10R J 0,4W
R-709	45016	RESISTOR,CARBON FILM	2,2K J 0,25W
R-710	52761	RESISTOR,CARBON FILM	820R J 0,25W
R-711	45016	RESISTOR,CARBON FILM	2,2K J 0,25W
P-701	317824	RESISTOR,SEMIVARIABLE	1K 0,05W
P-702	317824	RESISTOR,SEMIVARIABLE	1K 0,05W
C-701	378949	CAPACITOR,CERAMIC FILM	100N J 63V
C-702	411389	CAPACITOR,CERAMIC	150P J 63V
C-703	411616	CAPACITOR,POLYESTER	390P K 63V
C-704	378937	CAPACITOR,CERAMIC	10N J 63V
C-705	378949	CAPACITOR,CERAMIC FILM	100N J 63V
C-706	378949	CAPACITOR,CERAMIC FILM	100N J 63V

TABLE 2

CHASSIS COMPLET		MAIN CHASSIS (WITHOUT BOARD)
414854	G4 PAL/MO	SE 40010
414857	G4 PAL/MO TTX	SE 40010
413314	G4 PAL/MO VC	SE 40020
413277	G4 PAL/MO TTX VC	SE 40020
414984	G4 PSO/MO DK TTX	SE 40030
415101	G4 PSO/MO DK	SE 40030
413311	G4 PSO/MO DK TTX VC	SE 40040
415102	G4 PSO/MO DK VC	SE 40040
415113	G4 PAL/ST NK	SE 40050
415127	G4 PAL/ST VC	SE 40060
415153	G4 PAL/ST WF	SE 40070
415155	G4 PAL/MO WF	SE 40080
415151	G4 PAL/MO TTX WF	SE 40080
415299	G4 PSO/ST VT NK	SE 40090
415302	G4 PSO/ST VT VC	SE 40100
415305	G4 PSO/MO DK TTX-26	SE 40110
415315	G4 PAL/ST TTX NK Q	SE 40130
415316	G4 PAL/ST TTX VC Q	SE 40140
415512	G4 PAL/MO TTX TP	SE 40150
415513	G4 PAL/MO TP	SE 40150
415550	G4 PAL/MO TTX PHIL	SE 40010
415588	G4 PAL/ST TTX WF Q	SE 40160
415821	G4 PSO/MO NK	SE 40170
415802	G4 PSO/ST NK	SE 40170
415829	G4 PSO/MO TP	SE 40180

EB-G4 IR PREAMPLIFIER BOARD ; SE45030 PART NO.414032 (MODEL EARLY BI

	52778	RESISTOR,CARBON FILM	47R	J	0,25W
	68174	RESISTOR,CARBON FILM	39R	J	0,33W
	68153	RESISTOR,CARBON FILM	10K	J	0,33W
	413591	RESISTOR,CARBON FILM	240K	J	0,33W
	378817	CAPACITOR,ELECTROLYTIC	1U	Z	100V
	378939	CAPACITOR,ELECTROLYTIC	10U	Z	63V
	378983	CAPACITOR,ELECTROLYTIC	220U	S	10V
	413824	CAPACITOR,CERAMIC	330P	J	63V
	317845	LED-DIODE	TLHR4601		
	316011	PHOTO-DIODE	BPW41		
	414034	INTEGRATED CIRCUIT	TA8141S		
	413343	PC BOARD,EB-G4			

VARIOUS PARTS

415114	DEGAUSSING COIL 21"	
413141	DEGAUSSING COIL 20"	
375053	MAINS COARD	
415088	REMOTE CONTROL	

TABLE 1

413190 PICTURE TUBE A51 ECQ 10X01 NOKIA

	413820	MODULE VK ; SE46010			
R-249	316701	RESISTOR,WIREWOUND	0,82R	J	1W
C-1006	415688	CAPACITOR,POLYPROPILENE	8500P	J	1,5KV
L-1003	413801	COIL,LINEARITY	EKM12-85		

414745 PICTURE TUBE A51 EBV 13X01 VIDEOCOLOR

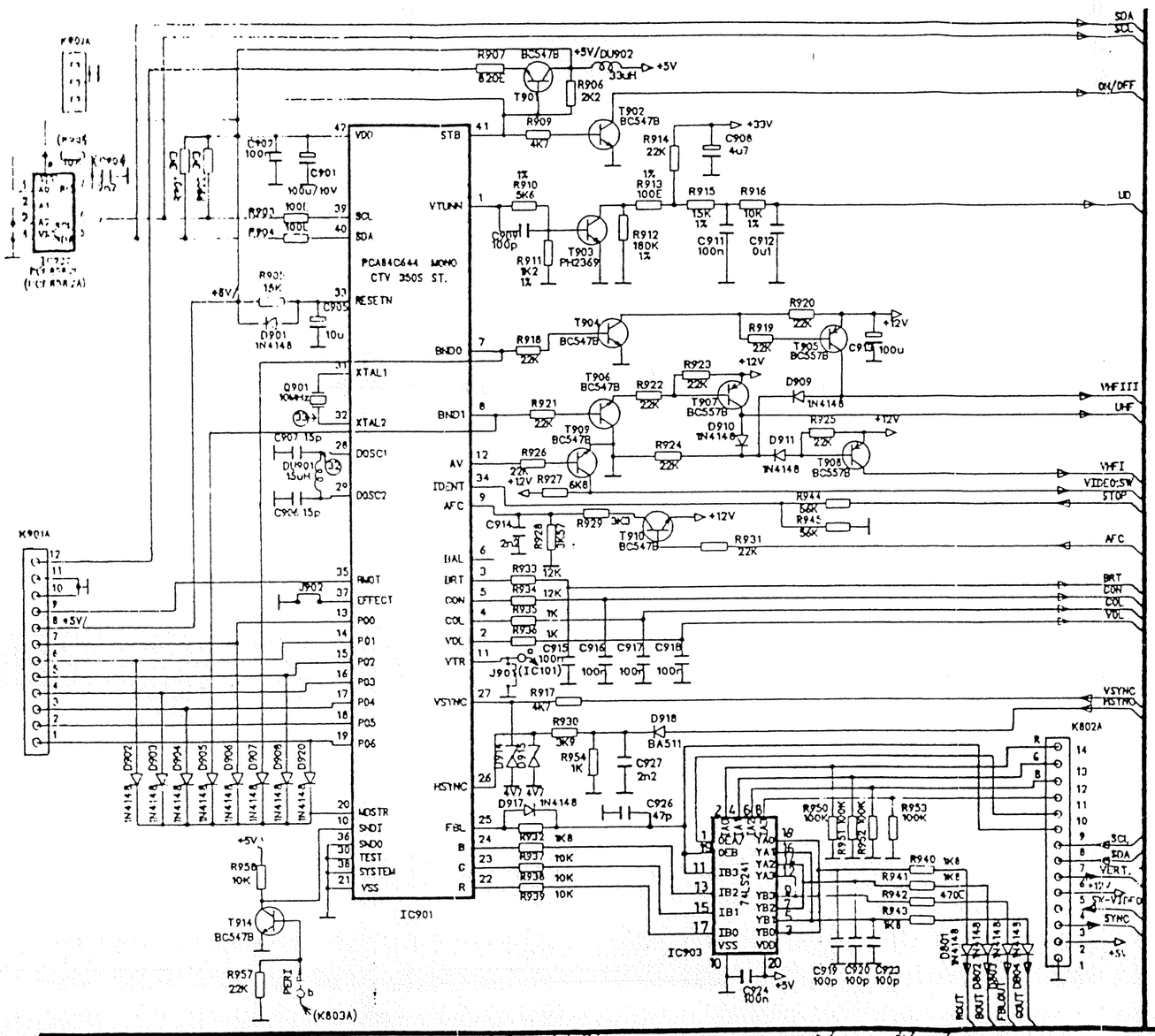
	414946	MODULE VK ; SE46040			
R-249	415143	RESISTOR,METAL OXYDE	1,2R	J	1W
C-1006	412924	CAPACITOR,POLYPROPILENE	6800P	J	1,5KV
L-1003	413801	COIL,LINEARITY	EKM12-85		

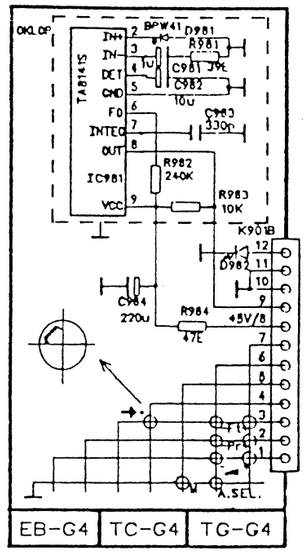
414942 PICTURE TUBE A51 ECR 11X01 WF

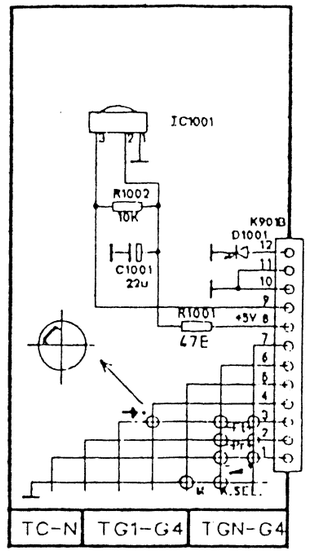
	415152	MODULE VK ; SE46050			
R-249	314906	RESISTOR,METAL OXYDE	2,7R	J	1,5W
C-1006	413328	CAPACITOR,POLYPROPILENE	8800P	J	1,5KV
L-1003	414945	COIL,LINEARITY	EKM12-92		

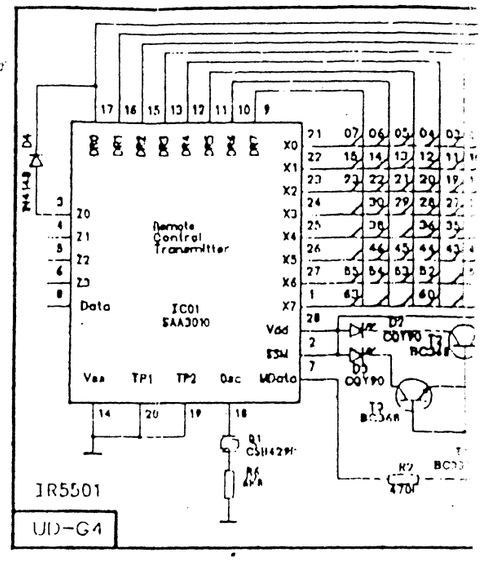
415157 PICTURE TUBE A51-457X THOMSON

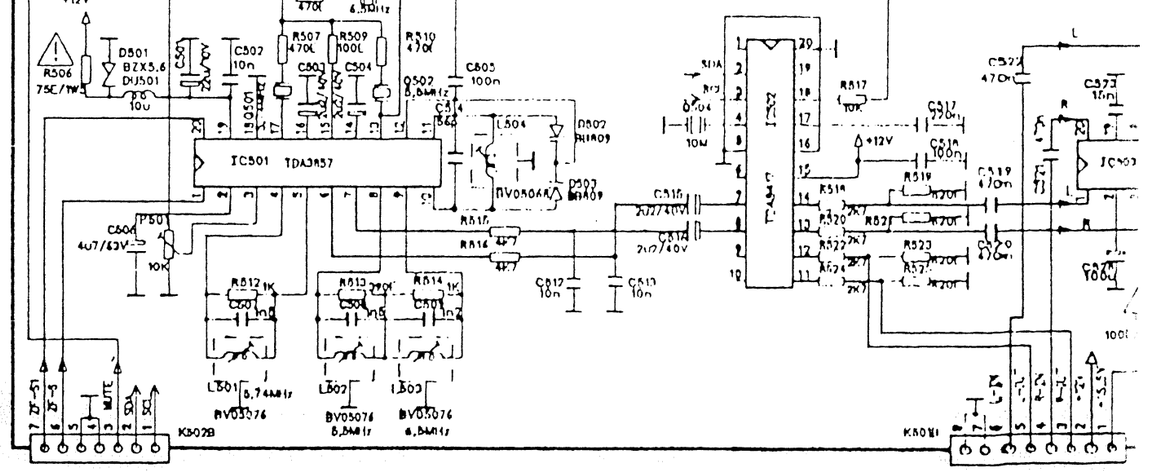
	413820	MODULE VK ; SE46010			
R-249	316701	RESISTOR,WIREWOUND	0,82R	J	1W
C-1006	316792	CAPACITOR,POLYPROPILENE	7800P	J	1,5KV
L-1003	414945	COIL,LINEARITY	EKM12-85		

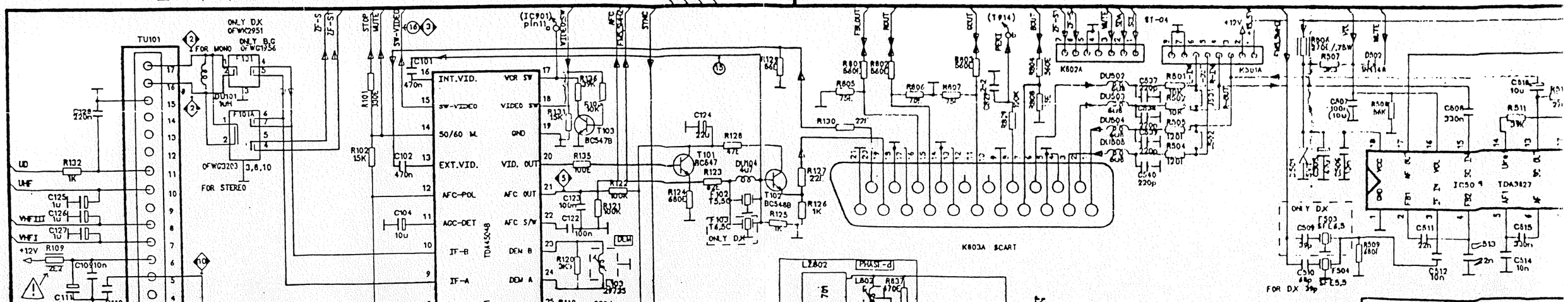

K901A
IC901
PCA84C644 MONO
CTV 350S ST.
VDD
STB
VTUNN
SCL
SDA
RESETN
BND0
XTAL1
XTAL2
BND1
DOSC1
DOSC2
AV
IDENT
AFC
BAL
BRT
CON
COL
VDL
VTR
VSYNC
HSYNC
FBL
R
G
B
PWOT
EFFECT
P00
P01
P02
P03
P04
P05
P06
MOSTR
SNDI
SNDO
TEST
SYSTEM
VSS
SDA
SCL
ON/OFF
UD
VHFIII
UHF
VHFI
VIDEO SW
STOP
AFC
BRT
CON
COL
VDL
VSYNC
HSYNC
+5V/DU902
+5V
+33V
+12V
+8V
IC903
74LS241
K802A
(K803A)
PERI


OKLOP
TA8145S
BPW41
D981
R981
C981
C982
C983
R982
240K
R983
10K
IC981
K901B
D982
C984
220u
R984
47E
45V/8
A.SEL.
EB-G4
TC-G4
TG-G4


IC1001
R1002
10K
C1001
22u
K9013
D1001
R1001
47E
+5V
A.SEL.
TC-N
TG1-G4
TGN-G4


Remote
Control
Transmitter
IC01
SAA3010
Data
Vaa
TP1
TP2
Osc
WData
Vdd
5SW
D7
D5
IR5501
UD-G4


+12V
D501
BZX5.6
DU501
R506
75E/1W
IC501
TDA3857
K802B
K801A
L501
L502
L503
8,74mHr
8,6mHr
8,6mHr


TU101
ONLY DX
OFWK2951
ONLY BG
OFWG1756
FOR MONO
FOR STEREO
OFWG3203
INT.VID.
SW-VIDEO
50/60 H.
EXT.VID.
AFC-POL
AGC-DET
IF-B
IF-A
VCR SW
VIDEO SW
GND
VID. OUT
AFC OUT
AFC S/W
DEM B
DEM A
TDA4504B
IC101
IC901 pin11
K803A SCART
IC501 TDA3827
FOR DX
UD
UHF
VHFIII
VHFI
+12V
STOP
AFC
SYNC

TGN-G4

UD-G4

IR5501

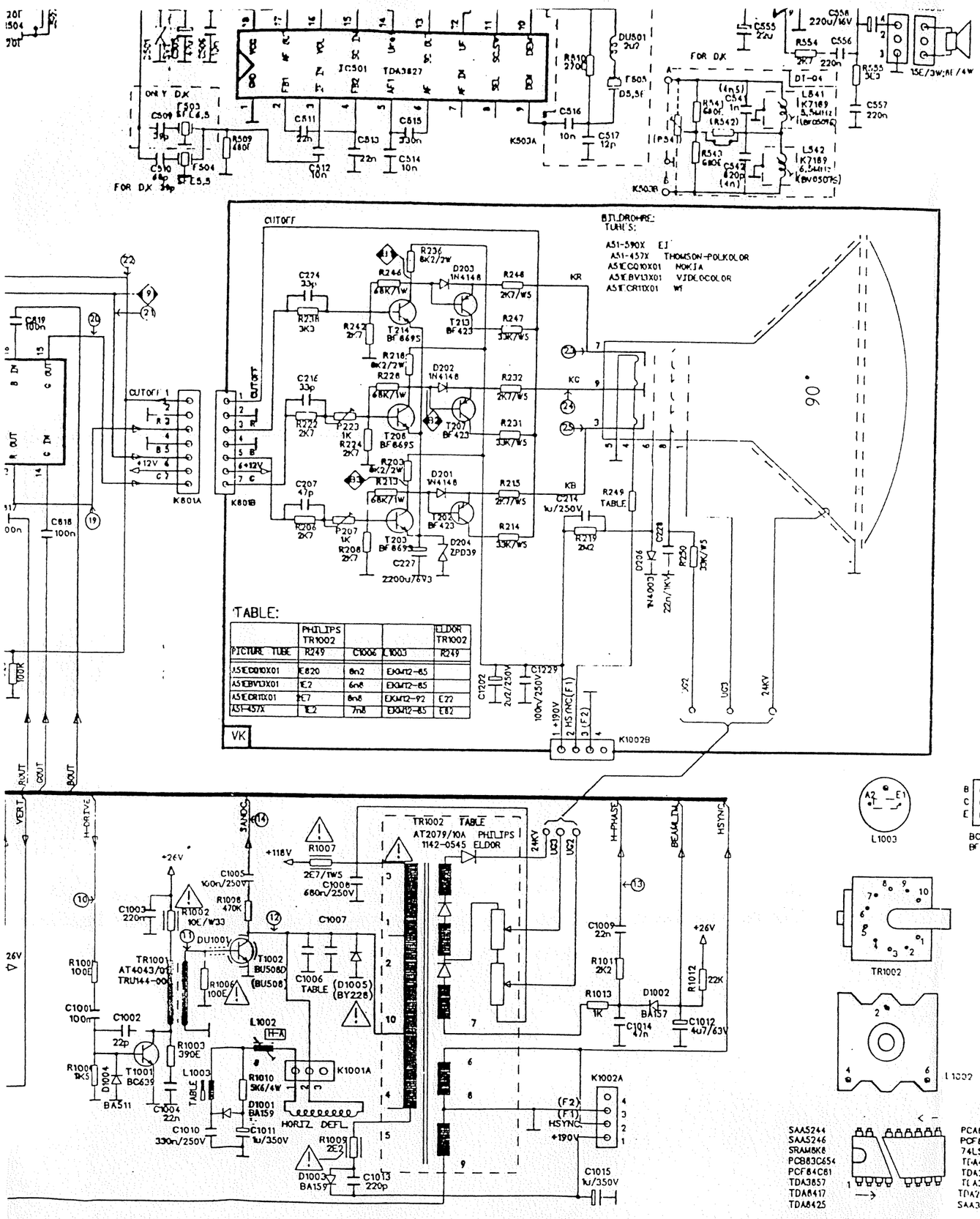
SECAM--G4

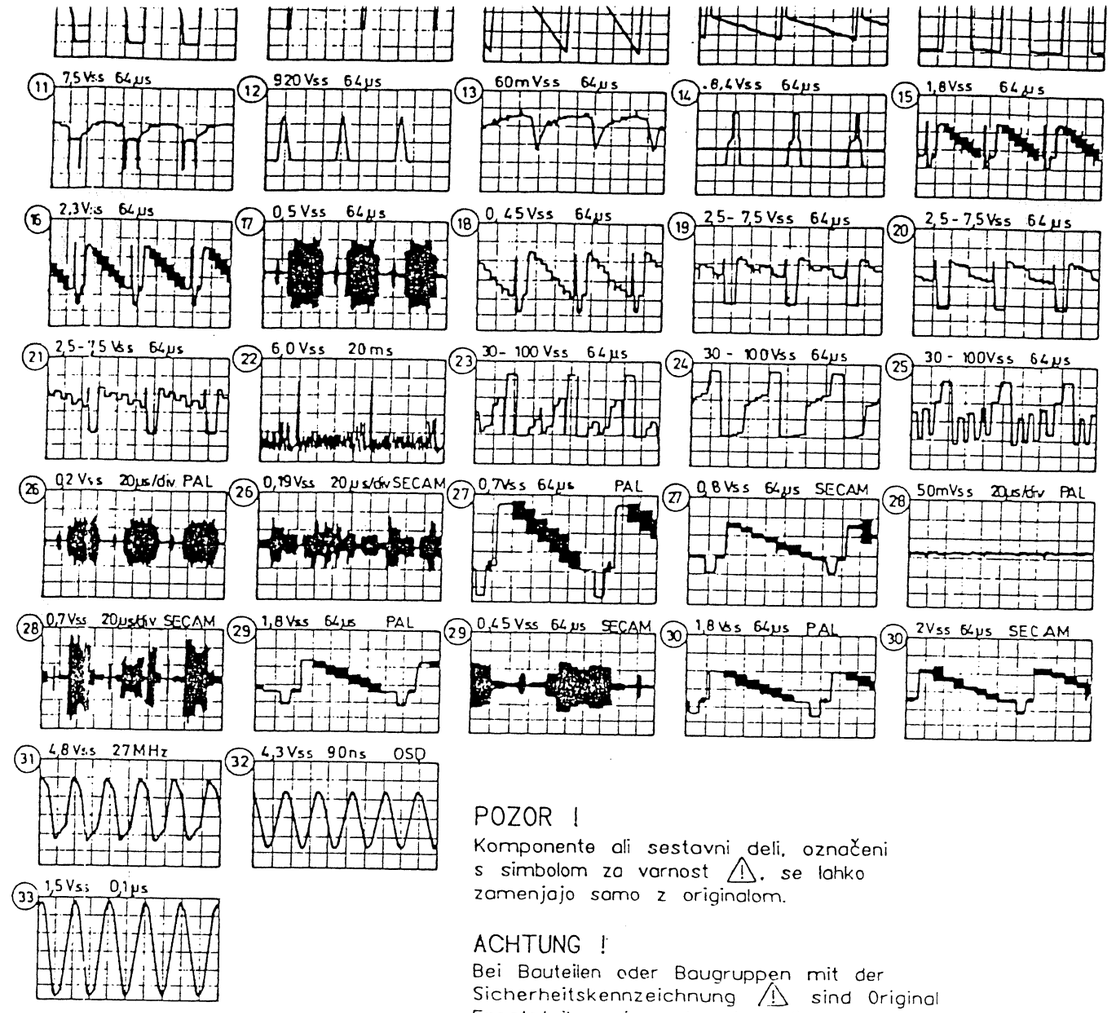
TTX-G4/a

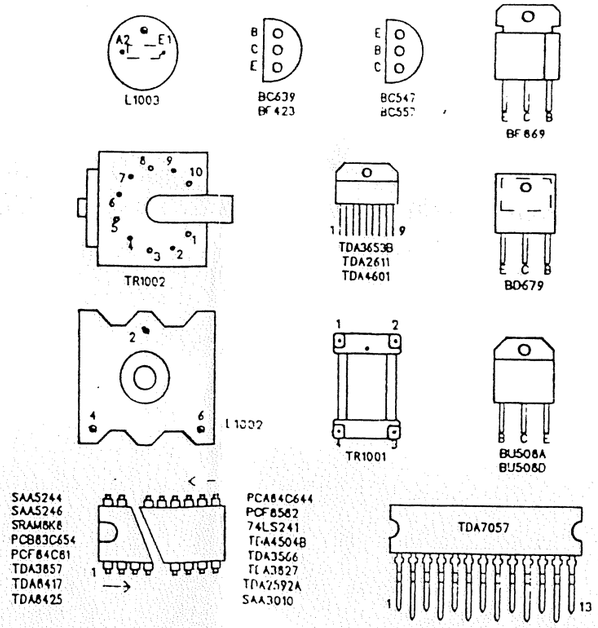
ST-G4/a

TTX26-G4/a

1 600Vss 34µs
2 530 Vss 15µs STD-BY
3 14 Vss 34µs
4 40 Vss 15µs STD-BY
5 50Vss 15µs STD-BY
6 50 Vss 34µs
7 1,7 Vss 20ms
8 0,7 Vss 20ms
9 38 Vss 20 ms
10 2,9 Vss 64µs
11 7,5Vss 64µs
12 920 Vss 64µs
13 60mVss 64µs
14 8,4 Vss 64µs
15 1,8Vss 64µs
16 2,3 Vss 64µs
17 0,5 Vss 64µs
18 0,45Vss 64µs
19 2,5 - 7,5 Vss 64µs
20 2,5 - 7,5Vss 64µs







POZOR !

Komponente ali sestavni deli, označeni s simbolom za varnost ⚠, se lahko zamenjajo samo z originalom.

ACHTUNG !

Bei Bauteilen oder Baugruppen mit der Sicherheitskennzeichnung ⚠ sind Original Ersatzteile zwingend notwendig.

ATTENTION !

With components or assemblies accompanied with the Safety Symbol ⚠ only original spare parts are strictly to be used.

ATENZIONE !

I componenti o i gruppi di componenti con traddistindi dall'indicaz ⚠ devono assolutamente venir sostituiti con parti originale.

ATTENTION !

Les composants et ensembles de composants signales par le symbole ⚠ doivent etre imperativement remplaces par des pieces d'origine.

ATENCIONE !

Con componentes o grupos constructivos con el indicativo de seguridad ⚠ son de obligado necesidad piezas de repuesto originales.

G-4 (P.C.B. 415601/b)

2.12.1992

415157

IC101 TDA4504B

IC301 TDA3653B

IC401 TDA4601

IC501 TDA3827

IC601 TDA3566A

K803A SCART

K701A K701B

K801A K801B

K902B

K301A VERT. DEFL

HORIZ. DEFL.

TR651 TRE232/42-15V-09A

TR1001 AT4043/01 TRU144-00A

TABLE:	PHILIPS TR1002		
PICTURE TUBE	R249	C1006	L1003
A51EC010X01	1E820	8n2	EKM12-85
A51EBV13X01	1E2	6n8	EKM12-85
A51ECR11X01	1E7	8n8	EKM12-92
A51-457X	1E2	7n8	EKM12-85

VK

T-G bei 33057-55, ~~33057-63~~, 33057-71 Nimbus Diadem / Körting/Gorenje
T-C bei 33062-55, ~~33062-63~~, 33062-71

T - G
T - C

SFH505A
IC1001

OSD

IC903
74 LS 241

IC904
SAA 5246 P/H (P/E)

IC905
RAM
MOS!

IC902
SDA 2546

IC901
SDA 20561-A010

BC 547B
BC 547B
BC 547B
BD 135

RAM
IC 905
- TC 5564 PL-15
- HM 6264 LP-15
- PCB 81C65 L-70P
- BR 61C65 - 12L

TTX

K-201
K-402
K-903
K-801

ST-G2

TBA 229-2 IC01

TDA 6610-2 IC02

5,5 (6,5)

K-204

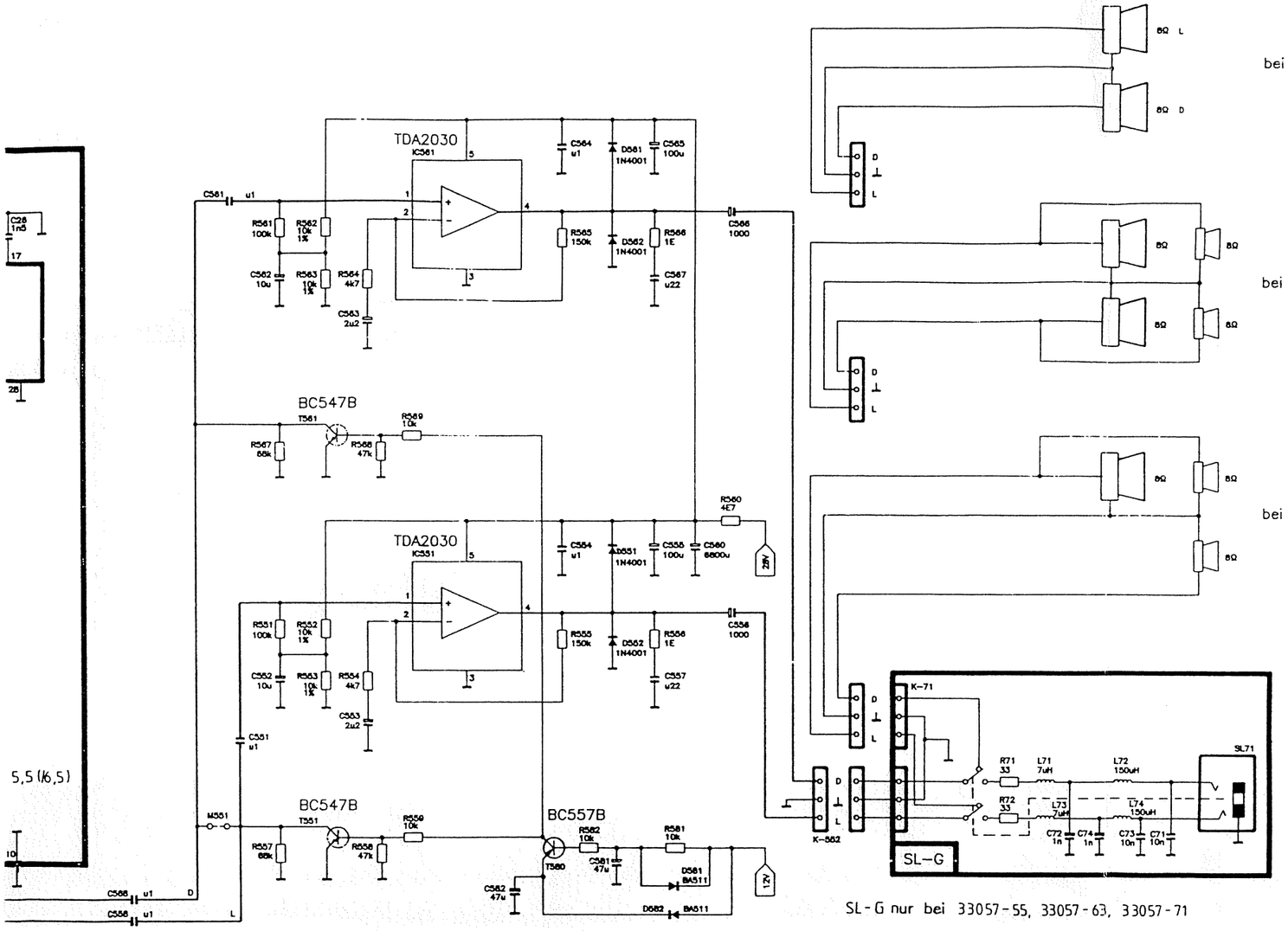
SK6102C
(Saleamp)
HPT 609, TCP 611
(POLICOM)
FL 2462/94
(SEL)

ZF-SS

TDA 5830-2
IC01

IC201
TEA2014

TTX
K-801/1

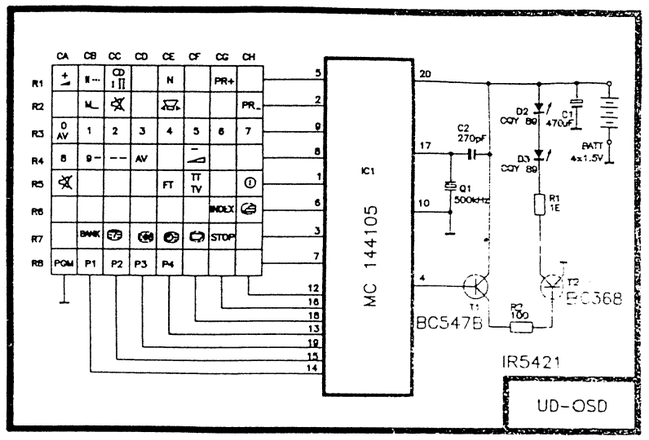


SL-G nur bei 33057-55, 33057-63, 33057-71

bei 33062-55, 33062-63, 33062-71

bei 33057-63, 33057-71

bei 33057-55



D

ACHTUNG!
Bei Bauteilen oder Baugruppen mit der Sicherheitskennzeichnung ⚠ sind Original-Ersatzteile zwingend notwendig.

GB

ATTENTION!
With components or assemblies accompanied with the Safety Symbol ⚠ only original-spare parts are strictly to be used.

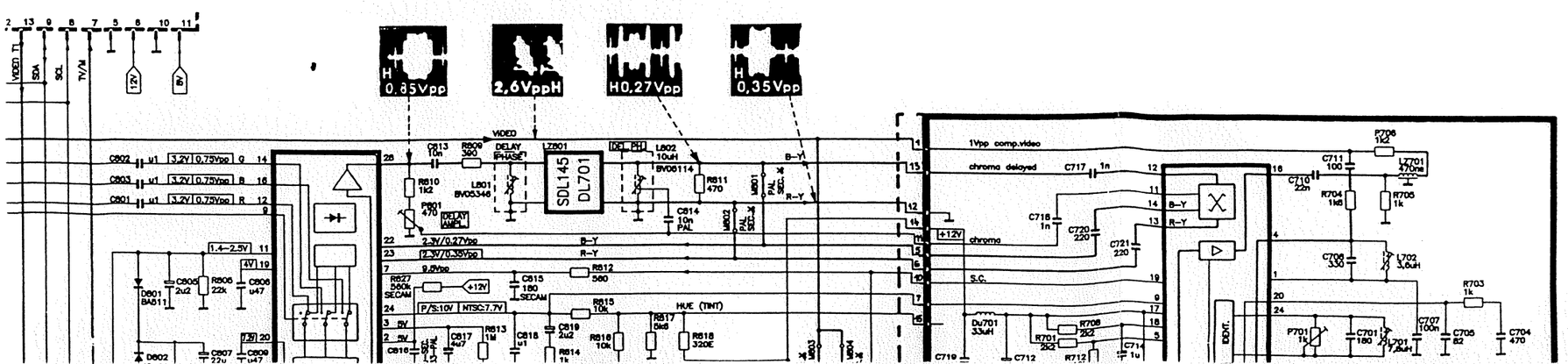
I

ATENZIONE!
I componenti o i gruppi di componenti contraddistinti dall'indicaz. ⚠ devono assolutamente venir sostituiti con parti originale.

F

ATTENTION!
Les composants et ensembles de composants signalés par le symbole ⚠ doivent être impérativement remplacés par des pièces d'origine.

ATENCION!



ATENCION!

(E) Con componentes o grupos constructivos con el indicativo de seguridad ⚠ son de obligada necesidad piezas de repuesto originales.

* T A B.	C1005 (nF)	R308 (Ω)	R1249 (Ω)	C1006 (nF)
BILDRÖHRE 110°				
A59 EAF 10X01	330	1000	1.8	11
A59 ECY 13X31	270	330	0,22	11
A59 ECF 10X05	270	330	1.8	11
A59 EAK 00X01	270	330	0,82	11
A66 EAF 10X01	330	1000	1.8	11
A66 ECF 10X05	270	1000	1,8	11
A66 ECY 13X31	270	330	0,22	11
BILDRÖHRE 90°				
A51 ECQ 10X01	330	1000	0.82	8,8
A51 EBV 13X01	330	1000	0,22	5,6

Modul SECAM ist eine Option

B – D1
B – D2
B – D

1/10 – 1/4W
1/3W
1/2W
1W

Gorenje
Nimbus

414913

GZP Maribor ski tisk 1992

TDA 5830-2

IC01

OFWG 3203

K-101

TEA2014

IC201

TDA8185

IC401

TDA 4601

IC651

L78S12

L78S05

TDA8170

IC301

BU 508A

BC 557

BC 547

BC557

BC547

BC639

BD679

BU508A

Tr 651

K-651

K-802

K-204/1

K-301

K-402

K-1001

NS-5

ACHTUNG! KEINE NETZTRENUNG

T-C nur bei 33062-55, 33062-63, 33062-71

3,5 Vpp

660 Vpp

H 8 Vpp

H 6 Vpp

H 15 Vpp

H 1180 Vpp

V 50 Vpp

V 1,5 Vpp

V 6,5 Vpp

V 6 Vpp

V 11 Vpp